Service Manual

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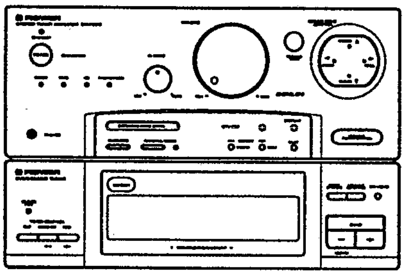
The Art of Entertainment



ORDER NO.
ARP2705

STEREO RECEIVER

SX-P530

SX−P530 HAS THE FOLLOWING :

Type	Power Requirement	Remarks
HE	AC220−230V, 240V (Switchable)*	
HB	AC220−230V, 240V (Switchable)*	
HEWZI	AC220−230V, 240V (Switchable)*	
SD	AC110V, 120−127V, 220V, 240V (Switchable)	
SL	AC110V, 120V, 220V, 240V (Switchable)	
YPW	AC240V only	

*Change the connection of the power transformer's primary wiring.

- **This manual is applicable to SX−P530/HE, HB, SD, SL and YPW.**
- **For HB, SD, SL and YPW types, refer to page 46.**
- **For HEWZI type, refer to the service manual ARP2707.**
- **These products are systems components.**
  Each of these products does not function properly when independent ; to avoid malfunctions, be sure to connect it to the prescribed system component (s), otherwise damage may result.
  These products accessories etc. are packed with their related component (s).

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1. EXPLODED VIEWS, PACKING AND PARTS LIST

NOTES :

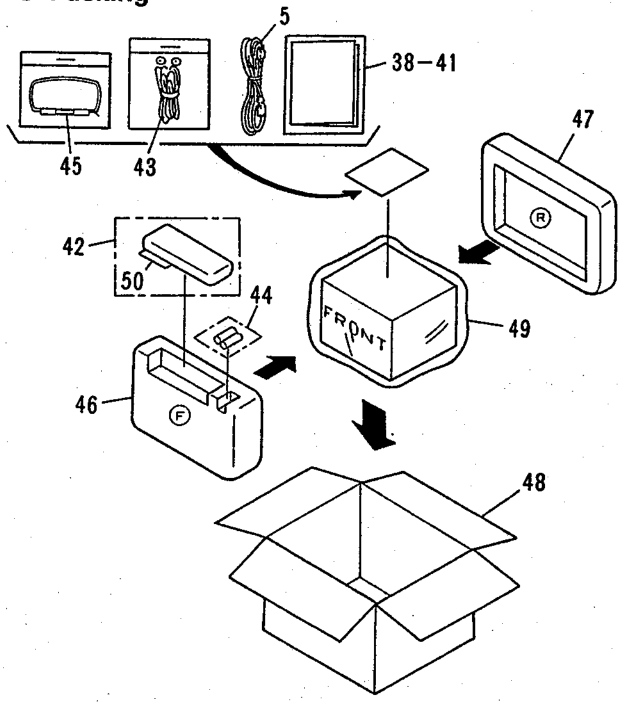
- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

Parts list of Exterior and Packing

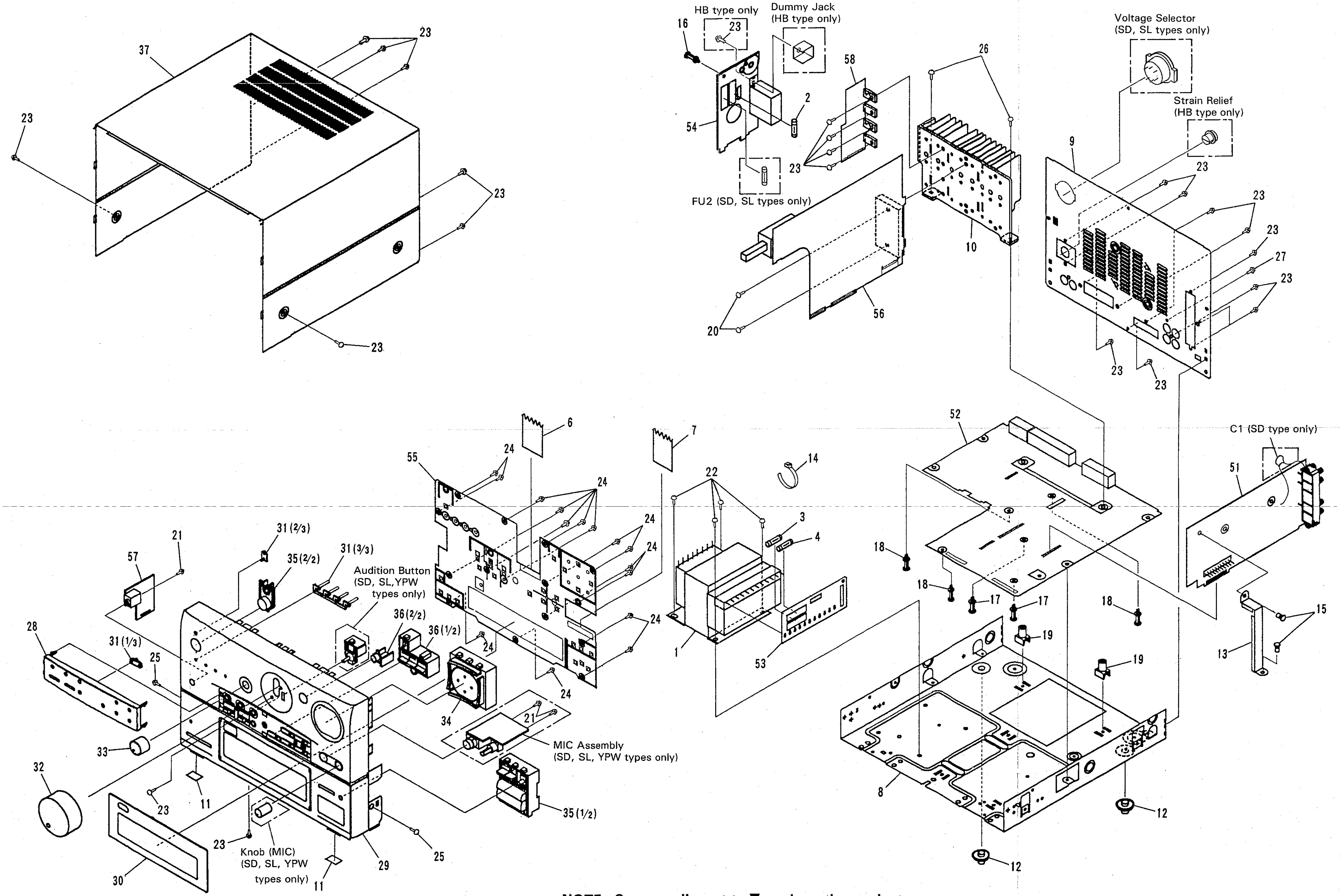
Mark	No.	Description	Parts No.
⚠	1	POWER TRANSFORMER (T)	ATS1476
⚠	2	FUSE (T800mA/250V, FU1)	AEK−507
⚠	3	FUSE (T1.25A/250V, FU3)	AEK−509
⚠	4	FUSE (T1.25A/250V, FU4)	AEK−509
⚠	5	AC POWER CORD	ADG1127
⚠NSP	6	FLEXIBLE CABLE (J)	ADD1101
⚠NSP	7	FLEXIBLE CABLE (J)	ADD1110
NSP	8	CHASSIS	ANA1209
	9	REAR PANEL	ANC2039
NSP	10	HEAT SINK	ANH1422
	11	RUBBER SHEET	AEB1111
	12	FOOT (RUBBER)	REC−434
	13	PCB HOLDER	ANG1807
NSP	14	NYLON BINDER	AEC−093
	15	NYLON RIVET	AEC1160
NSP	16	SPACER	AEC1358
NSP	17	PCB SPACER (3×8)	AEC1371
	18	PCB SPACER (3×12)	AEC1372
NSP	19	PCB MOULD	AMR1525
	20	SCREW	ABA−258
	21	SCREW (STEEL)	ABA1095
	22	SCREW (STEEL)	ABA1184
	23	SCREW	BBZ30P080FZK
	24	SCREW	BPZ26P080FMC
	25	SCREW	CBZ30P080FMC
	26	SCREW	VBZ30P200FMC
	27	SCREW	VBZ35P080FMC
	28	SUB PANEL B	AAK2424
	29	FRONT PANEL	AMB2113
	30	FL DECORATIVE PLATE	AAK2428
	31	LENS	AAK2429
	32	VOLUME KNOB	AAB1309
	33	P−BASS KNOB	AAB1311
	34	SFC BUTTON	AAD2401
	35	TUNER BUTTON	AAD2402
	36	TIMER BUTTON	AAD2403
	37	BONNET	ANE1410
	38	OPERATING INSTRUCTIONS (Dutch, Swedish, Spanish, Portuguese)	ARC1401
	39	OPERATING INSTRUCTIONS (Dutch, Swedish, Spanish, Portuguese) (For PDC−P530/PDC−P530M)	ARC1402
	40	OPERATING INSTRUCTIONS (English, French, German, Italian)	ARE1268

Mark	No.	Description	Parts No.
	41	OPERATING INSTRUCTIONS (English, French, German, Italian) (For PDC−P530/PDC−P530M)	ARE1269
	42	REMOTE CONTROL UNIT (CU−SX062)	AXD1321
	43	FM ANTENNA	ADH1005
NSP	44	BATTERY (R03, AAA)	AEX−021
	45	LOOP ANTENNA (L)	ATB1006
	46	FRONT PAD	AHA1577
	47	REAR PAD	AHA1578
	48	PACKING CASE	AHD2476
	49	PACKING SHEET	AHG1016
	50	BATTERY COVER	AZA1375
	51	TUNER ASSEMBLY	AWE1226
	52	AF ASSEMBLY	AWZ4694
	53	TRANS ASSEMBLY	AWZ4700
	54	AC SUPPLY ASSEMBLY	AWZ4701
	55	DISPLAY ASSEMBLY	AWZ4704
	56	DELAY & AF ASSEMBLY	AWZ4711
NSP	57	HEADPHONE ASSEMBLY	AWZ4716
	58	REGULATER ASSEMBLY	AWZ4743

● Packing



● Exterior


37
23
23
23
23
HB type only
16
23
Dummy Jack
(HB type only)
54
58
2
23
FU2 (SD, SL types only)
26
10
56
20
Voltage Selector
(SD, SL types only)
Strain Relief
(HB type only)
9
23
23
23
27
23
23
23
52
C1 (SD type only)
51
15
13
18
18
17
17
18
19
19
8
12
12
6
7
14
22
3
4
1
53
55
24
24
24
24
24
24
21
57
31 (2/3)
35 (2/2)
31 (3/3)
Audition Button
(SD, SL, YPW
types only)
36 (2/2)
36 (1/2)
34
21
MIC Assembly
(SD, SL, YPW types only)
35 (1/2)
28
31 (1/3)
25
33
32
30
23
11
23
Knob (MIC)
(SD, SL, YPW
types only)
11
29
25

NOTE : Screws adjacent to ▼ mark on the product are used for disassembly.

2. DISASSEMBLY

1. Bonnet (Refer to Fig. 1)
   Remove the screws ① (×2) and ② (×5).

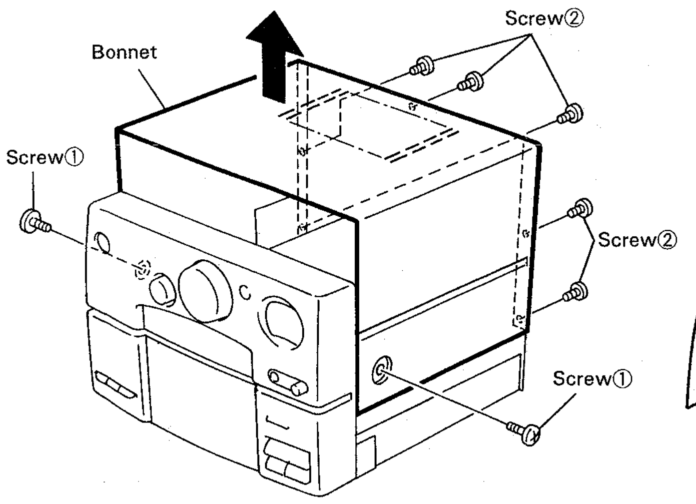

Screw②
Bonnet
Screw①
Screw②
Screw①

Fig. 1

2. Front Panel and Chassis Section (Refer to Fig. 2)
   Remove the screws ③ (×2) and ④ (×1).
   Remove the VOL knob from the front panel, and take out screw ⑤ (×1).
   (The VOL knob is removable by pulling forward.)

NOTE :
When not removing the front panel and chassis, it is not necessary to remove screws ③ (×2) and ④ (×1).

3. Rear panel and Chassis Section (Refer to Fig. 2)
   Remove screw ⑥ (×1).

4. Heat sink and Chassis Section (Refer to Fig. 2)
   Remove screw ⑦ (×2).

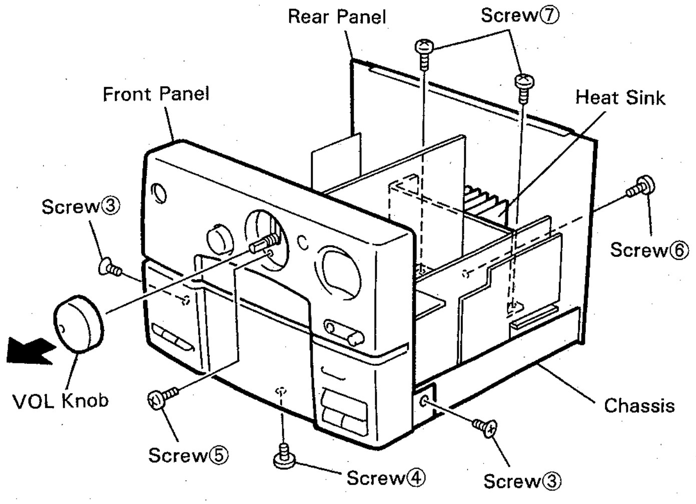

Rear Panel
Screw⑦
Front Panel
Heat Sink
Screw③
Screw⑥
VOL Knob
Chassis
Screw⑤
Screw④
Screw③

Fig. 2

● Inspection Method of PCB Assembly

After removing the screws according to the preceding clauses 1−4, by lifting away the rear panel, block Ⓐ (rear panel, AF, DELAY & AF, TUNER assembly etc.) separates from the chassis.
By positioning the body as shown in Fig. 3., the operation of each PCB assembly can be inspected.
By also removing the front panel, the inspection of each PCB assembly is made further easier.

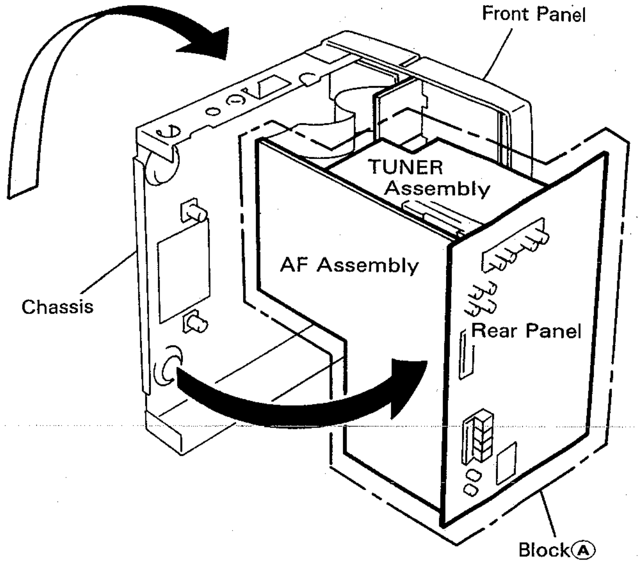
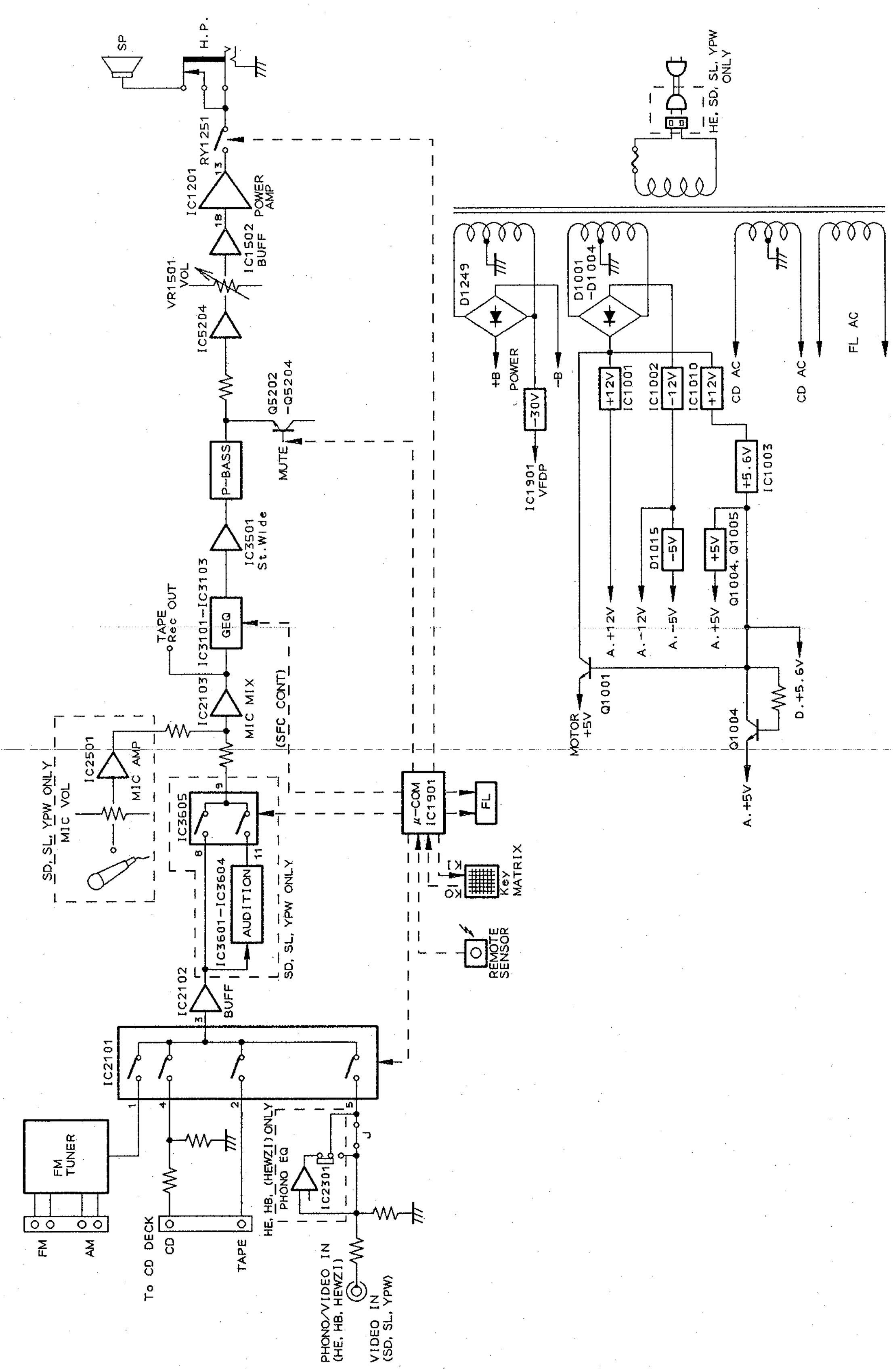

Front Panel
TUNER Assembly
AF Assembly
Chassis
Rear Panel
BlockⒶ

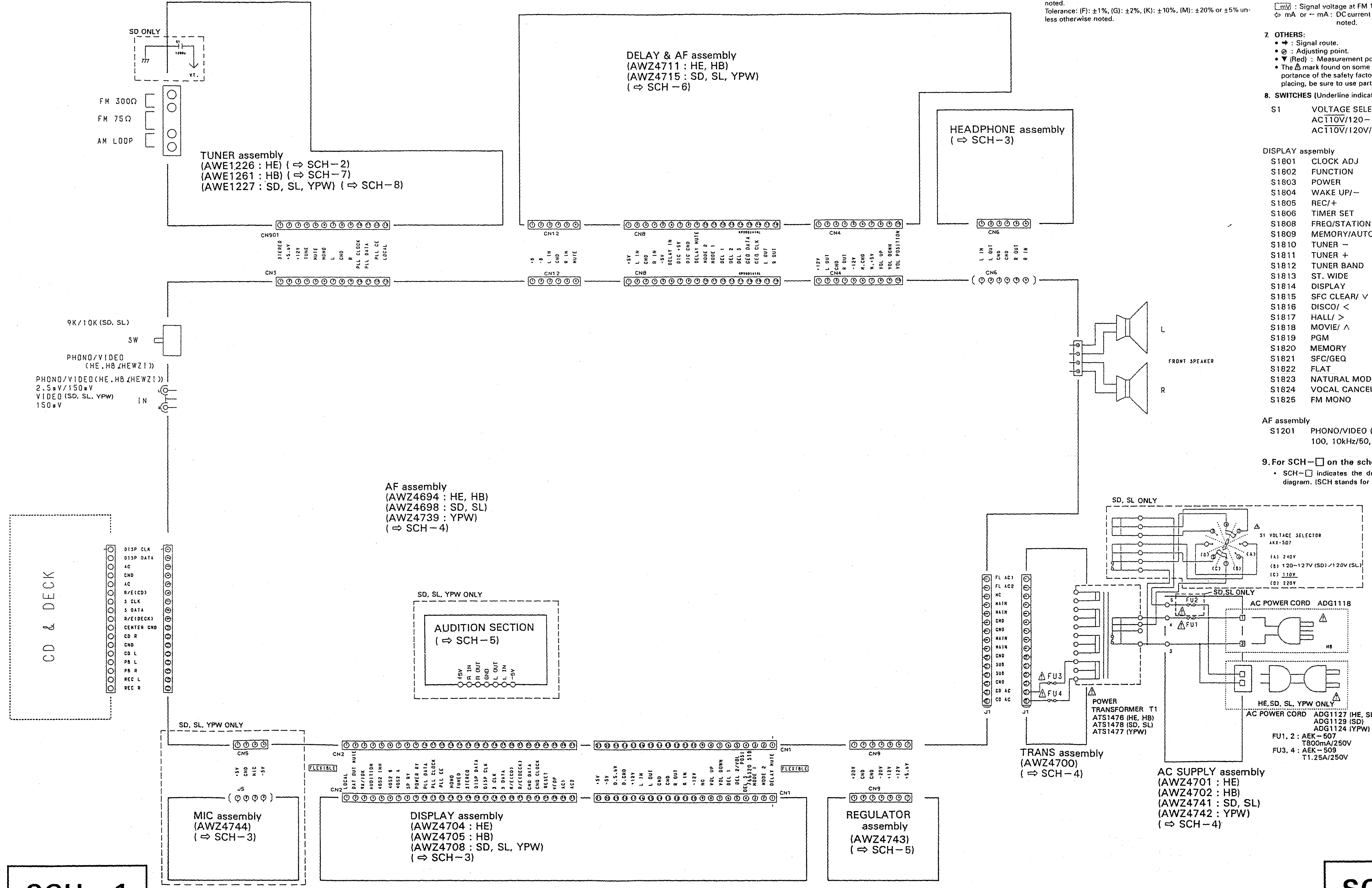
Fig. 3

3. BLOCK DIAGRAM


SP
H.P.
RY1251
IC1201
POWER AMP
IC1502
BUFF
VR1501
VOL
IC5204
Q5202 -Q5204
MUTE
P-BASS
IC3501
St.Wide
TAPE Rec OUT
IC3101-IC3103
GEQ
IC2103
MIC MIX
(SFC CONT)
SD, SL, YPW ONLY
MIC VOL
IC2501
MIC AMP
IC3605
IC3601-IC3604
AUDITION
SD, SL, YPW ONLY
IC2102
BUFF
IC2101
FM TUNER
FM
AM
To CD DECK
CD
TAPE
HE, HB, (HEWZI) ONLY
PHONO EQ
IC2301
PHONO/VIDEO IN (HE, HB, HEWZI)
VIDEO IN (SD, SL, YPW)
μ-COM
IC1901
FL
KI
KO
Key MATRIX
REMOTE SENSOR
HE, SD, SL, YPW ONLY
D1249
+B
POWER
-B
-30V
IC1901
VFDP
D1001 -D1004
+12V
IC1001
-12V
IC1002
+12V
IC1010
CD AC
CD AC
FL AC
+5.6V
IC1003
D1015
-5V
+5V
Q1004, Q1005
A.+12V
A.-12V
A.-5V
A.+5V
MOTOR +5V
Q1001
Q1004
D.+5.6V
A.+5V
1
2
3
A
B
C
D

4. SCHEMATIC AND PCB CONNECTION DIAGRAMS

4.1 OVERALL SCHEMATIC DIAGRAM


A
B
C
D
SD ONLY
C1
1200p
VT.
FM 300Ω
FM 75Ω
AM LOOP
TUNER assembly
(AWE1226 : HE) (⇨ SCH−2)
(AWE1261 : HB) (⇨ SCH−7)
(AWE1227 : SD, SL, YPW) (⇨ SCH−8)
CN901
STEREO +5.6V +12V TUNE MUTE MONO L GND R PLL CLOCK PLL DATA PLL CE LOCAL
CN3
DELAY & AF assembly
(AWZ4711 : HE, HB)
(AWZ4715 : SD, SL, YPW)
(⇨ SCH−6)
CN12
+B -B L IN GND R IN MUTE
CN8
+5V L IN GND R IN -5V DELAY IN DIG +5V DIG GND DELAY MUTE MODE 2 MODE 1 DEL 1 DEL 2 DEL 3 GEQ DATA GEQ CLK L OUT R OUT
CN4
+12V L OUT GND R OUT -12V M.GND M.+5V VOL UP VOL DOWN VOL POSITION
HEADPHONE assembly
(⇨ SCH−3)
CN6
L IN L OUT GND GND R OUT R IN
L
FRONT SPEAKER
R
9K/10K (SD, SL)
SW
PHONO/VIDEO (HE, HB (HEWZI))
PHONO/VIDEO (HE, HB (HEWZI))
2.5mV/150mV
VIDEO (SD, SL, YPW)
150mV
IN
AF assembly
(AWZ4694 : HE, HB)
(AWZ4698 : SD, SL)
(AWZ4739 : YPW)
(⇨ SCH−4)
CD & DECK
DISP CLK
DISP DATA
AC
GND
AC
R/E(CD)
S CLK
S DATA
R/E(DECK)
CENTER GND
CD R
GND
CD L
PB L
PB R
REC L
REC R
SD, SL, YPW ONLY
AUDITION SECTION
(⇨ SCH−5)
+5V R IN R OUT GND L OUT L IN -5V
SD, SL, YPW ONLY
CN5
+5V GND MIC -5V
J5
MIC assembly
(AWZ4744)
(⇨ SCH−3)
FLEXIBLE
CN2
LOCAL DAT OUT MUTE 9K/10K AUDITION 4052 INH 4052 B 4052 A SP RY POWER RY PLL DATA PLL CLOCK PLL CE MONO TUNED STEREO DISP DATA DISP CLK S CLK S DATA R/E(CD) R/E(DECK) GND DATA GND CLOCK RESET VFOP AC1 AC2
CN1
+5V -5V D.5.6V D.GND +12V L IN L OUT GND GND R OUT R IN -12V NC VOL UP VOL DOWN DEL 1 DEL 2/VOL POSI DEL 3 766320 STB MODE 1 MODE 2 DELAY MUTE
FLEXIBLE
DISPLAY assembly
(AWZ4704 : HE)
(AWZ4705 : HB)
(AWZ4708 : SD, SL, YPW)
(⇨ SCH−3)
CN9
+20V GND GND -20V +12V -12V +5.6V
REGULATOR assembly
(AWZ4743)
(⇨ SCH−5)
FL AC1
FL AC2
NC
MAIN
MAIN
GND
GND
MAIN
MAIN
GND
SUB
SUB
GND
CD AC
CD AC
J1
J1
FU3
FU4
POWER TRANSFORMER T1
ATS1476 (HE, HB)
ATS1478 (SD, SL)
ATS1477 (YPW)
TRANS assembly
(AWZ4700)
(⇨ SCH−4)
SD, SL ONLY
S1 VOLTAGE SELECTOR
AKX-507
(A) 240V
(B) 120−127V (SD) /120V (SL)
(C) 110V
(D) 220V
SD,SL ONLY
FU2
FU1
AC POWER CORD ADG1118
HB
HE, SD, SL, YPW ONLY
AC POWER CORD ADG1127 (HE, SL)
ADG1129 (SD)
ADG1124 (YPW)
FU1, 2 : AEK−507
T800mA/250V
FU3, 4 : AEK−509
T1.25A/250V
AC SUPPLY assembly
(AWZ4701 : HE)
(AWZ4702 : HB)
(AWZ4741 : SD, SL)
(AWZ4742 : YPW)
(⇨ SCH−4)

Note: Type 1

1. **When ordering service parts, be sure to refer to "PARTS LIST of EXPLODED VIEWS" or "PCB PARTS LIST".**
2. **Since these are basic circuits, some parts of them or the values of some components may be changed for improvement.**
3. **RESISTORS:**
   Unit: k:kΩ, M:MΩ, or Ω unless otherwise noted.
   Rated power: 1/4W, 1/6W, 1/8W, 1/10W unless otherwise noted.
   Tolerance: (F): ±1%, (G): ±2%, (K): ±10%, (M): ±20% or ±5% unless otherwise noted.
4. **CAPACITORS:**
   Unit: p:pF or μF unless otherwise noted.
   Ratings: capacitor (μF)/ voltage (V) unless otherwise noted.
   Rated voltage: 50V except for electrolytic capacitors.
5. **COILS:**
   Unit: m:mH or μH unless otherwise noted.
6. **VOLTAGE AND CURRENT:**
   V : Signal voltage at rated output.
   : DC voltage (V) at no input signal unless otherwise noted. Value in ( ) is DC voltage at rated power.
   mV : Signal voltage at FM 1kHz, 100% MOD.
   ⇦ mA or ← mA : DC current at no input signal unless otherwise noted.
7. **OTHERS:**
   - → : Signal route.
   - ⊘ : Adjusting point.
   - ▼ (Red) : Measurement point.
   - The ⚠ mark found on some component parts indicates the importance of the safety factor of the parts. Therefore, when replacing, be sure to use parts of identical designation.
8. **SWITCHES** (Underline indicates switch position):

S1	VOLTAGE SELECTOR AC$\overline{110V}$/120−127V/220V/240V (SD TYPE) AC$\overline{110V}$/120V/220V/240V (SL TYPE)

DISPLAY assembly

S1801	CLOCK ADJ
S1802	FUNCTION
S1803	POWER
S1804	WAKE UP/−
S1805	REC/+
S1806	TIMER SET
S1808	FREQ/STATION
S1809	MEMORY/AUTO PRE
S1810	TUNER −
S1811	TUNER +
S1812	TUNER BAND
S1813	ST. WIDE
S1814	DISPLAY
S1815	SFC CLEAR/ ∨
S1816	DISCO/ <
S1817	HALL/ >
S1818	MOVIE/ ∧
S1819	PGM
S1820	MEMORY
S1821	SFC/GEQ
S1822	FLAT
S1823	NATURAL MODE
S1824	VOCAL CANCEL (SD, SL, YPW ONLY)
S1825	FM MONO

AF assembly

S1201	PHONO/VIDEO (HE, HB ONLY) 100, 10kHz/50, 9kHz (SD, SL ONLY)

9. **For SCH−☐ on the schematic diagram**
   - SCH−☐ indicates the drawing number of the schematic diagram. (SCH stands for schematic diagram.)

4.2 TUNER ASSEMBLY (FOR HE TYPE)

Note : For HB, SD, SL and YPW types, refer to SCH−7 and SCH−8.

IC901 (LM7001)

Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	1.1	5	0	9	0.46	13	5.0
2	1.5	6	0	10	0 (1.7 when AM)	14	0.7
3	0	7	–	11	2.7	15	–
4	0	8	0	12	5.0	16	0

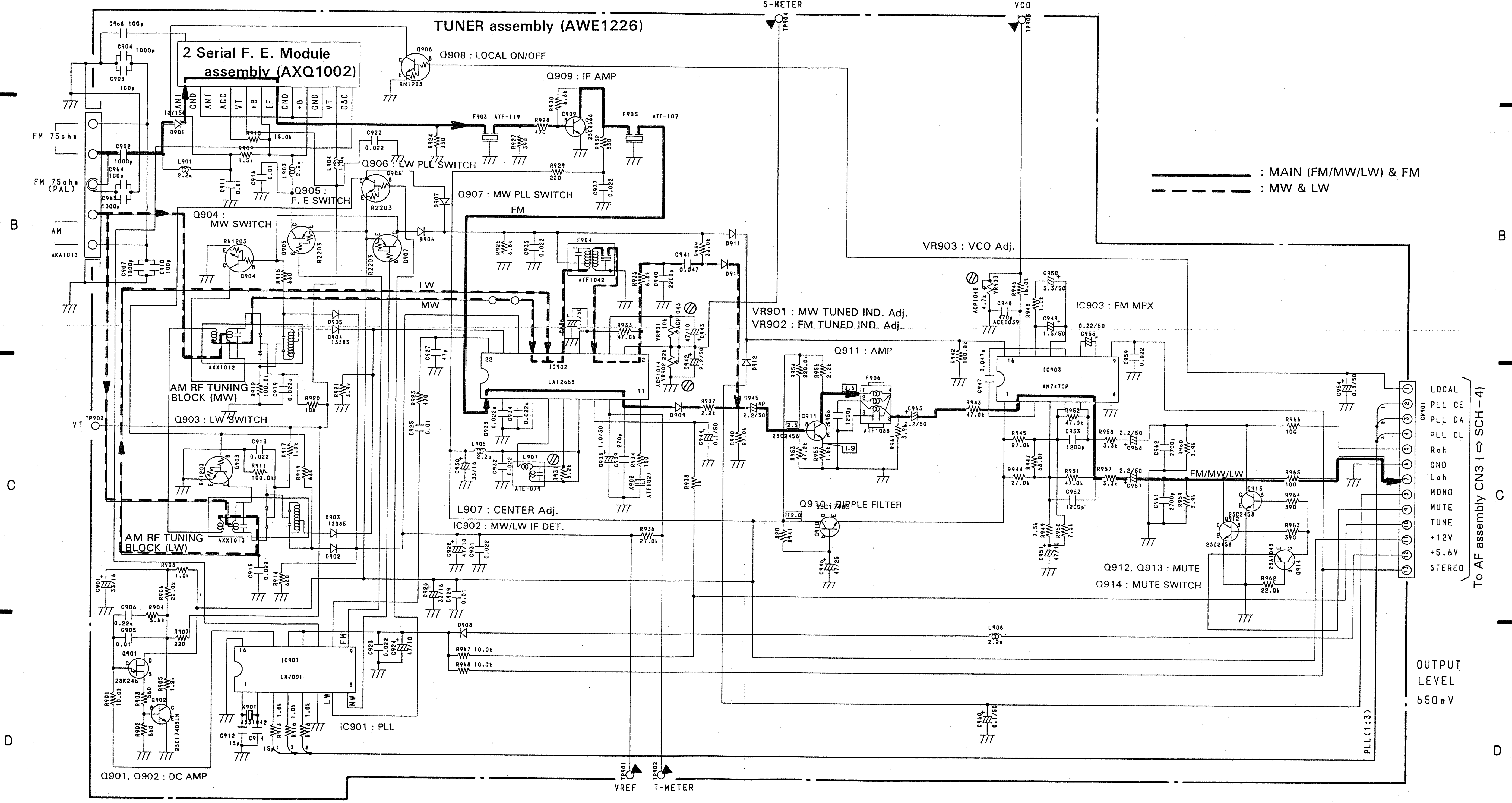
IC902 (LA1265S)

Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	2.3	7	12.0	12	1.5	16	1.4	19	0
2	2.3	8	0 (T)	13	1.4 (when MAX)				2.0 (when AM)
3	2.3		5.1 (D)	14	1.4 (when MAX)	17	0	20	3.8
4	0	9	3.8		0 (when AM)		12.0 (when AM)	21	3.8
5	12.0	10	2.8	15	2.3	18	0	22	2.8
6	12.0	11	1.5		1.1 (when AM)		2.0 (when AM)		1.5 (when AM)

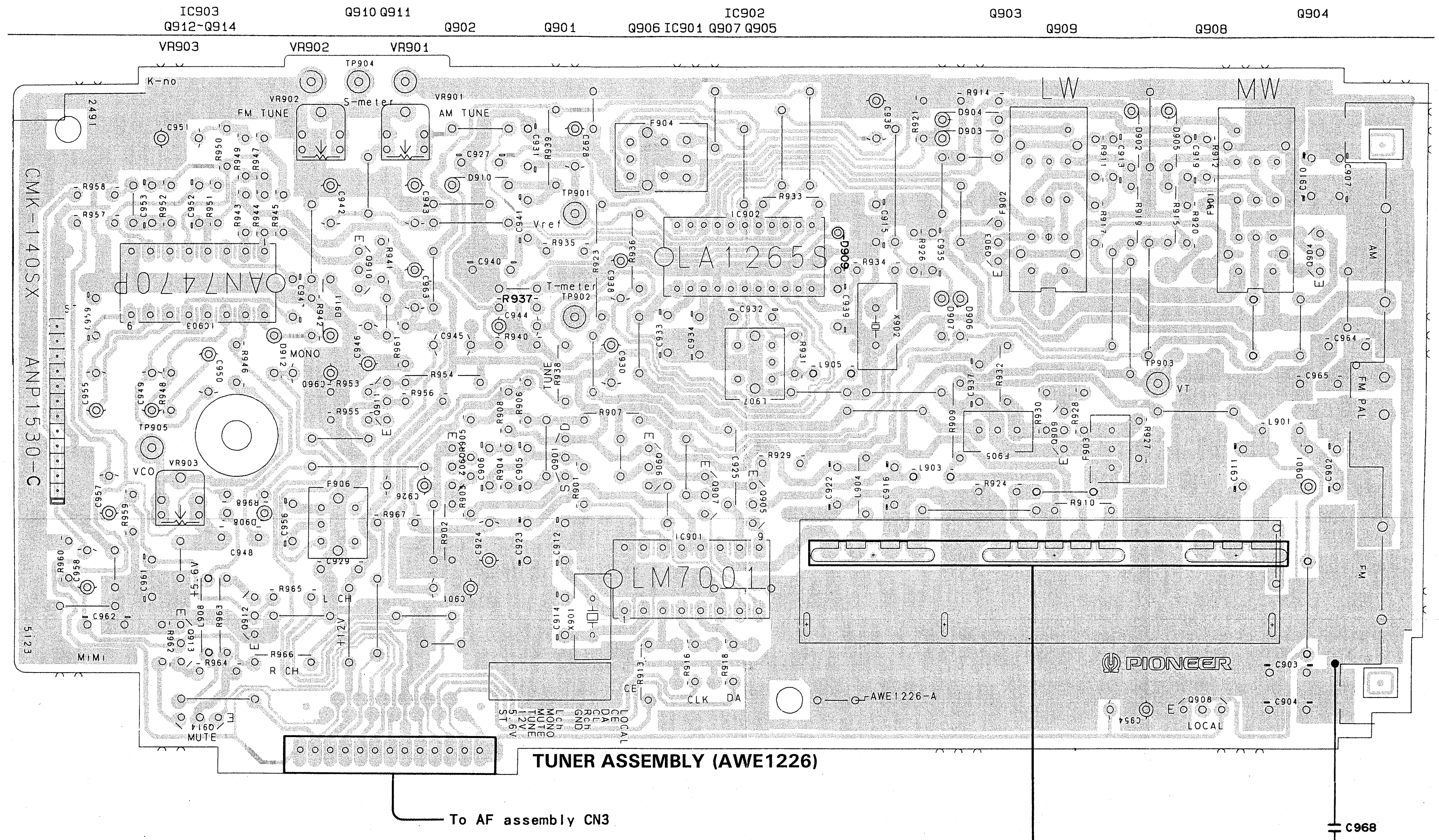
NOTE :
(T) when TUNE IND. is ON, (D) when TUNE IND. is OFF.

IC903 (AN7470P)

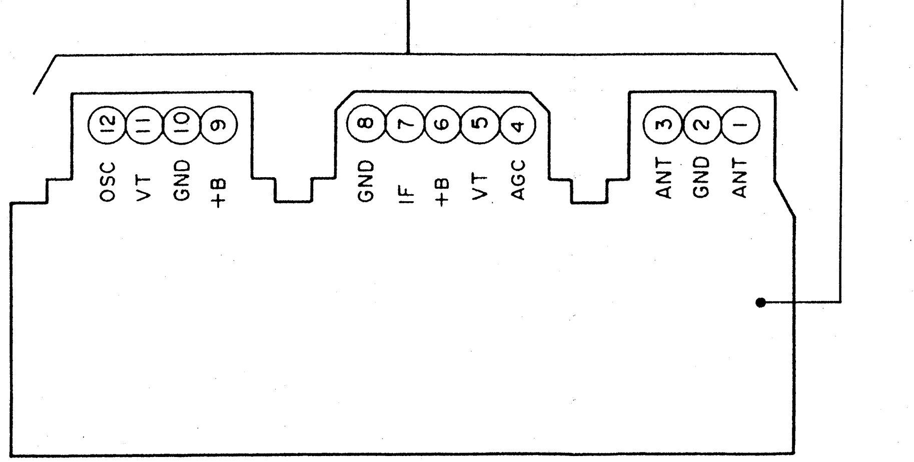
Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	11.2	9	4.9	15	3.2
2	2.6		0.6 (when STEREO)	16	0
3	6.1				11.4 (when AM)
4	8.9	10	2.6		
5	8.9	11	2.6		4.0 (when MONO)
6	3.9	12	2.6		
7	3.9	13	—		
8	0	14	2.6		


TUNER assembly (AWE1226)
2 Serial F. E. Module assembly (AXQ1002)
ANT
GND
ANT
AGC
VT
+B
IF
GND
+B
GND
VT
OSC
S-METER
TP904
VCO
TP905
: MAIN (FM/MW/LW) & FM
: MW & LW
FM 75ohm
FM 75ohm (PAL)
AM
AKA1010
VT
TP903
C968 100p
C904 1000p
C903 100p
C902 1000p
C964 100p
C965 1000p
C907 1000p
C910 100p
1SV156
D901
L901 2.2u
R910 15.0k
R909 1.5k
C911 0.01
C916 0.01
L903 2.2u
L904 1.0u
C922 0.022
R924 330
Q908 : LOCAL ON/OFF
Q908
RN1203
Q909 : IF AMP
Q909
2SC2668
F903 ATF-119
R926 470
R927 390
R930 6.8k
R932 330
F905 ATF-107
R929 220
C937 0.022
Q906 : LW PLL SWITCH
Q906
R2203
Q905 : F. E SWITCH
Q905
Q907 : MW PLL SWITCH
Q907
D907
D906
FM
Q904 : MW SWITCH
Q904
RN1203
R915 680
LW
MW
R926 6.8k
C935 0.022
F904
ATF1042
C936 4.7/50
R939 33.0k
C941 0.047
D911
D910
R935 6.8k
C940 2200p
R933 47.0k
VR901 10k
ACP1043
C943 47/10
VR902 22k
ACP1044
C942 2.2/50
D912
AXX1012
D905
D904 1SS85
AM RF TUNING BLOCK (MW)
R912 100.0k
C919 0.022u
R920 10K
R921 3.9k
Q903 : LW SWITCH
C927 47p
R923 470
C925 0.01
22
IC902
LA1265S
11
2
C933 0.022u
C934 0.022u
L905 2.2u
C930 33/16
C932 0.022
L907
ATE-079
R931 8.2k
C938 1.0/50
C939 270p
R934 100
X902
ATF1027
L907 : CENTER Adj.
IC902 : MW/LW IF DET.
D909
R937 2.2k
C945 NP 2.2/50
C944 0.1/50
R940 27.0k
R938
R936 27.0k
Q903
RN1203
C913 0.022
R911 100.0k
R917 1.0k
R919 680
AXX1013
AM RF TUNING BLOCK (LW)
D903 1SS85
D902
C915 0.022
R914 680
C928 47/10
C931 0.022
C926 33/16
C929 0.01
R908 1.0k
C901 33/16
R906 22.0k
C906 0.22u
R904 5.6k
C905 0.01
R907 220
Q901
2SK246
R901 10.0k
R903 560
R905 1.2k
Q902
2SC1740SLN
R902 560
Q901, Q902 : DC AMP
IC901
LM7001
16
9
1
8
FM
MW
LW
C923 0.022
C924 47/10
X901
ASS1042
C912 15p
C914 15p
R913 1.0k
R916 1.0k
R918 1.0k
IC901 : PLL
D908
R967 10.0k
R968 10.0k
TP901
VREF
TP902
T-METER
VR901 : MW TUNED IND. Adj.
VR902 : FM TUNED IND. Adj.
VR903 : VCO Adj.
ACP1042 4.7k
VR903
R946 15.0k
C950 3.3/50
C948 470p
ACE1039
R948 1.0k
C949 1.5/50
IC903 : FM MPX
0.22/50
C955
Q911 : AMP
R954 220.0k
R956 2.2k
F906
ATF1088
Q911
2SC2458
2.5
3.6
1.9
C956 1200p
R953 47.0k
R955 1.5k
C963 2.2/50
R961 3.9k
R942 100.0k
C947 0.047u
R943 47.0k
16
IC903
AN7470P
1
8
9
C959 0.022
R952 47.0k
R945 27.0k
C953 1200p
R947 68.0k
R944 27.0k
R951 47.0k
C952 1200p
R958 3.3k
C958 2.2/50
R957 3.3k
C957 2.2/50
C962 2700p
R960 3.9k
C961 2700p
R959 3.9k
FM/MW/LW
R966 100
R965 100
R964 390
R963 390
Q913
2SC2458
Q912
2SC2458
Q914
2SA1048
R962 22.0k
Q912, Q913 : MUTE
Q914 : MUTE SWITCH
Q910 : RIPPLE FILTER
Q910
2SC1740S
12.0
R941 820
C946 47/25
R949 7.5k
R950 7.5k
C951 47/10
C954 0.1/50
C960 0.1/50
L908 2.2u
CN901
1 LOCAL
2 PLL CE
3 PLL DA
4 PLL CL
5 Rch
6 GND
7 Lch
8 MONO
9 MUTE
10 TUNE
11 +12V
12 +5.6V
13 STEREO
To AF assembly CN3 (⇨ SCH−4)
OUTPUT LEVEL 650mV
PLL(1:3)
B
C
D

This PCB connection diagram is viewd from the parts mounted side.


IC903
Q912~Q914
Q910 Q911
Q902
Q901
Q906 IC901 Q907 Q905
IC902
Q903
Q909
Q908
Q904
VR903
VR902
VR901
K-no
FM TUNE
S-meter
AM TUNE
LW
MW
AN7470P
IC903
LA1265S
LM7001
CMK-140SX
ANP1530-C
MONO
VCO
L CH
R CH
T-meter
Vref
VT
LOCAL
MUTE
CE
CLK
DA
AM
FM PAL
FM
PIONEER
AWE1226-A
To AF assembly CN3
C968

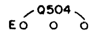
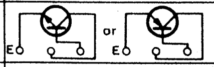
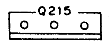
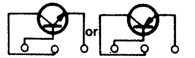
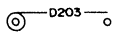
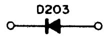
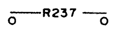
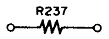
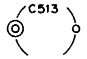
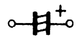
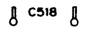
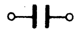
TUNER ASSEMBLY (AWE1226)


12 OSC
11 VT
10 GND
9 +B
8 GND
7 IF
6 +B
5 VT
4 AGC
3 ANT
2 GND
1 ANT

2 Serial F. E. Module assembly (AXQ1002)

NOTE

1. This P.C.B connection diagram is viewed from the parts mounted side.
2. The parts which have been mounted on the board can be replaced with those shown with the corresponding wiring symbols listed in the following Table.

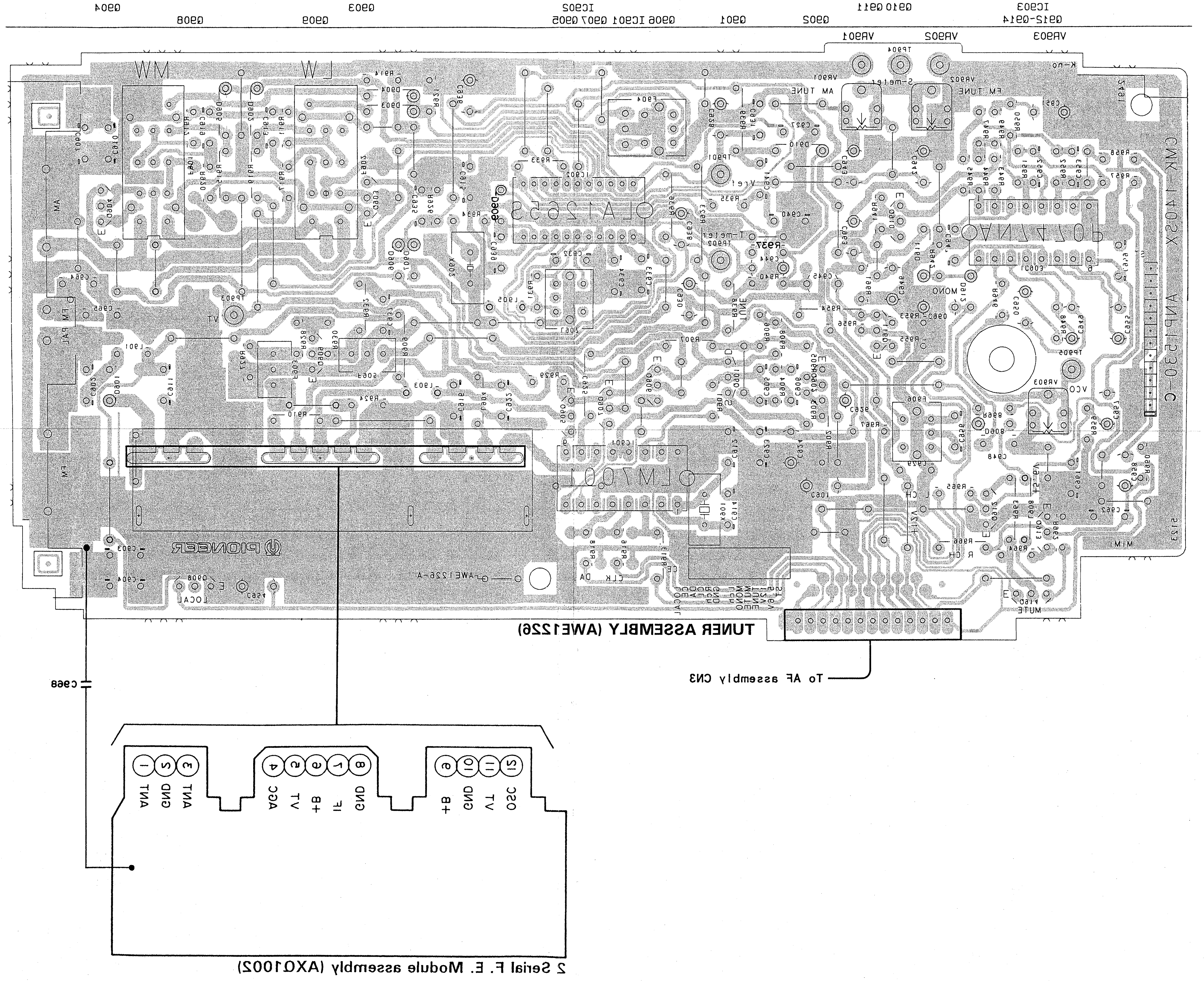
P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
 Q504		Transistor
 Q215		Radiator type transistor
 D203	 D203	Diode
 R237	 R237	Resistor
 C513		Capacitor (Polarized)
 C518		Capacitor (Non-polarized)

Others

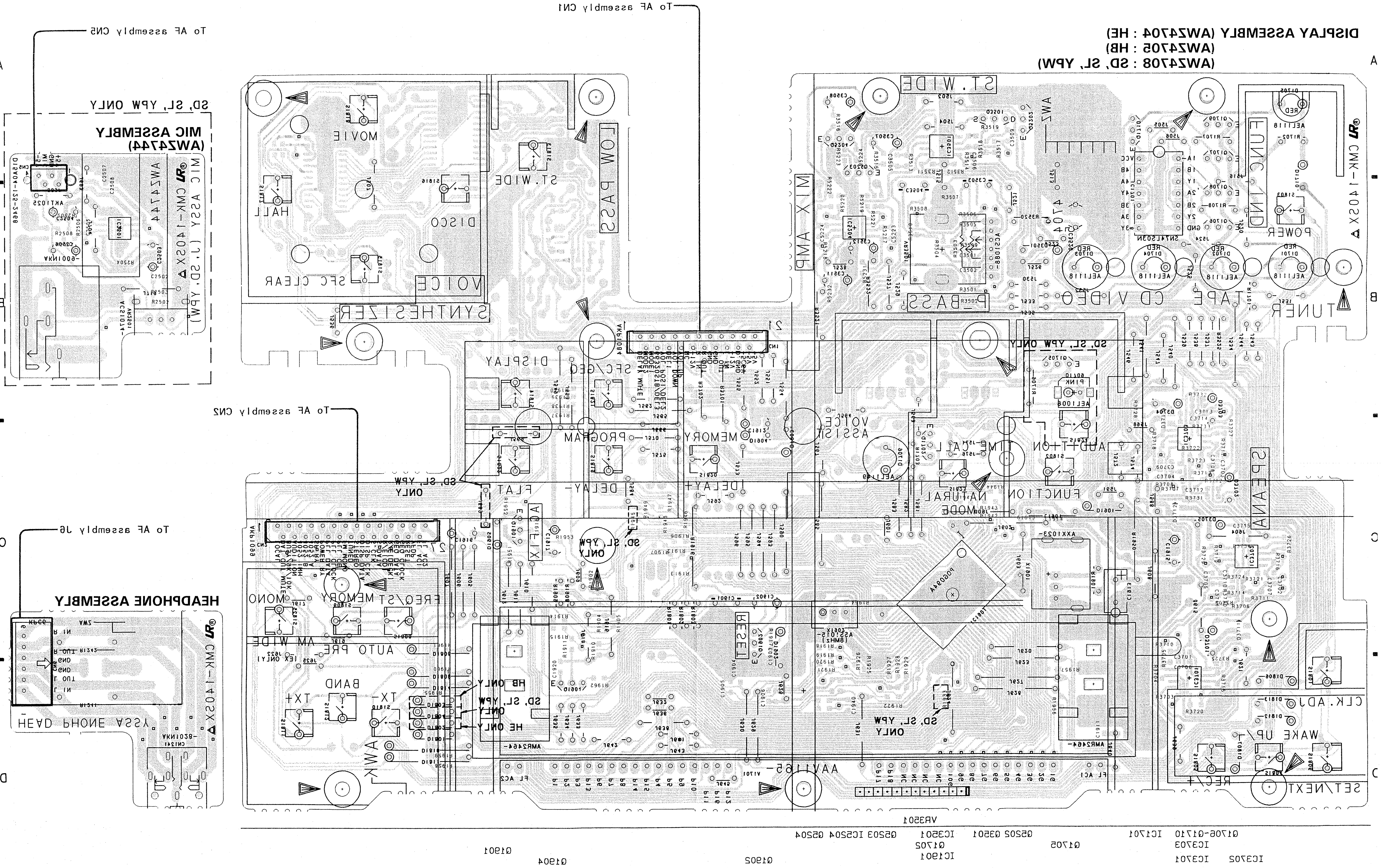
P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

3. The capactor terminal marked with ◎(double circles) shows negatine terminal.
4. The diode terminal marked with ◎(double circles) shows cathode side.
5. The transistor terminal to which E is affixed shows the emitter.

This PCB connection diagram is viwed from the foil side.


Q904
Q908
Q903
Q909
IC902
Q906 IC901 Q907 Q905
Q901
Q902
Q910 Q911
IC903
Q912-Q914
VR901
VR902
VR903
MW
LW
LA1265S
LM7001
TC4072
AM TUNE
FM TUNE
S-meter
MONO
VCO
L CH
R CH
MUTE
LOCAL
PIONEER
AWE1226-A
TUNER ASSEMBLY (AWE1226)
To AF assembly CN3
C968
1 ANT
2 GND
3 ANT
4 AGC
5 VT
6 B+
7 IF
8 GND
9 B+
10 GND
11 VT
12 OSC
2 Serial F. E. Module assembly (AXO1002)

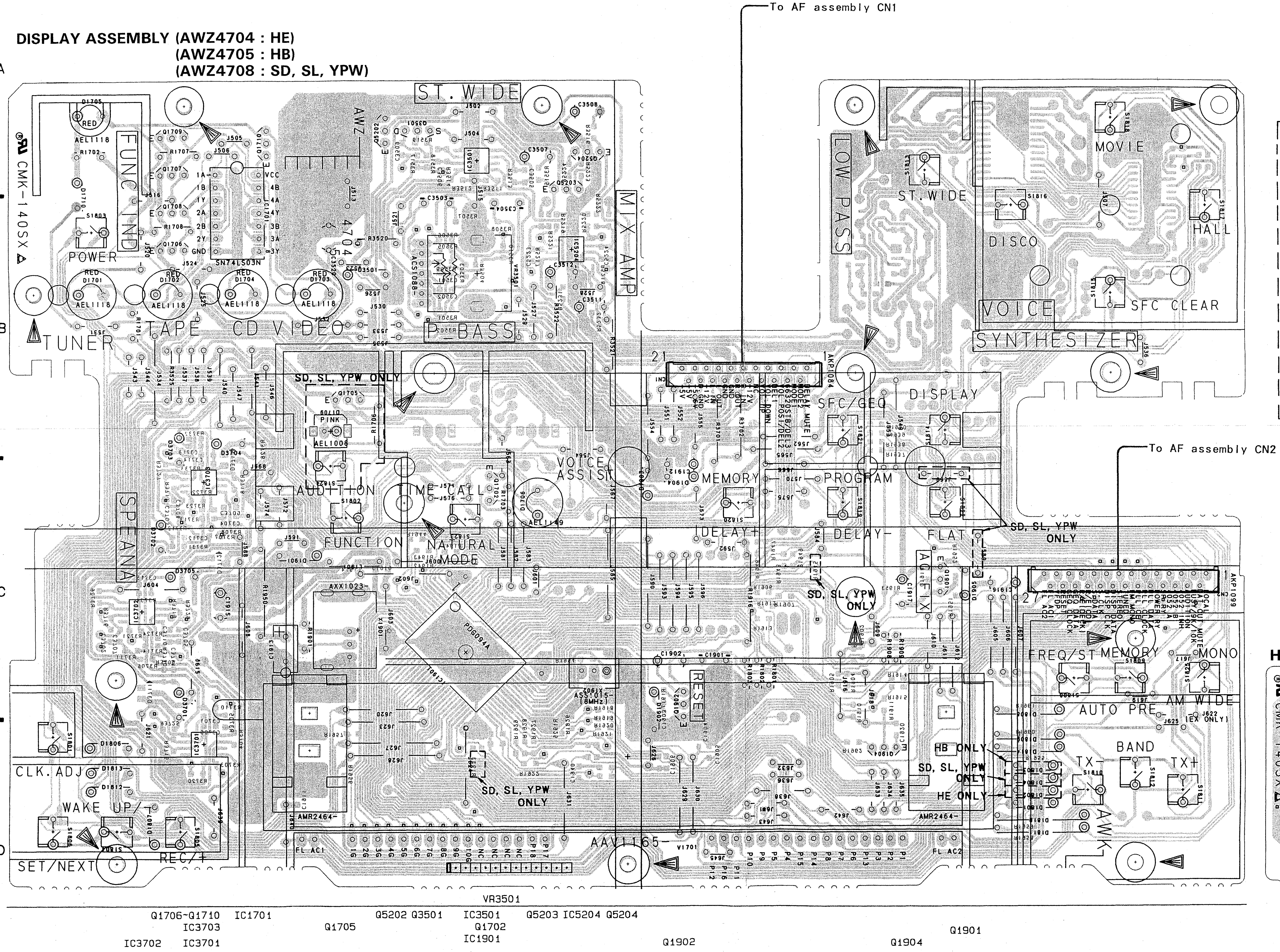
4.3 DISPLAY ASSEMBLY, HEADPHONE ASSEMBLY AND MIC ASSEMBLY


To AF assembly CN1
To AF assembly CN5
To AF assembly CN2
To AF assembly J6
DISPLAY ASSEMBLY (AWZ4704 : HE)
(AWZ4705 : HB)
(AWZ4708 : SD, SL, YPW)
MIC ASSEMBLY (AWZ4744)
SD, SL, YPW ONLY
HEADPHONE ASSEMBLY
MIC ASSY (J.SD.YPW)
HEAD PHONE ASSY
MOVIE
HALL
DISCO
SFC CLEAR
VOICE
SYNTHESIZER
ST.WIDE
LOW PASS
MIX AMP
P-BASS
CD VIDEO
TAPE
TUNER
POWER
FUNC IND
DISPLAY
SFC/GEQ
PROGRAM
MEMORY
VOICE ASSIST
TIME CALL
AUD+TON
FUNCTION
NATURAL MODE
FLAT
DELAY-
DELAY+
A-FIX
SP ANA
MONO
FREQ/ST MEMORY
AM WIDE
AUTO PRE
BAND
TX+
TX-
WAKE
RESET
CLK.ADJ
WAKE UP/T
SET/NEXT
REC/+
HB ONLY
HE ONLY
SD, SL, YPW ONLY
VR3501
Q1706-Q1710 IC1701
IC3703
IC3702 IC3701
Q1705
Q5202 Q3501 IC3501
Q1702
IC1901
Q5203 IC5204 Q5204
Q1901
Q1904
Q1902

This PCB connection diagram is viwed from the foil side.

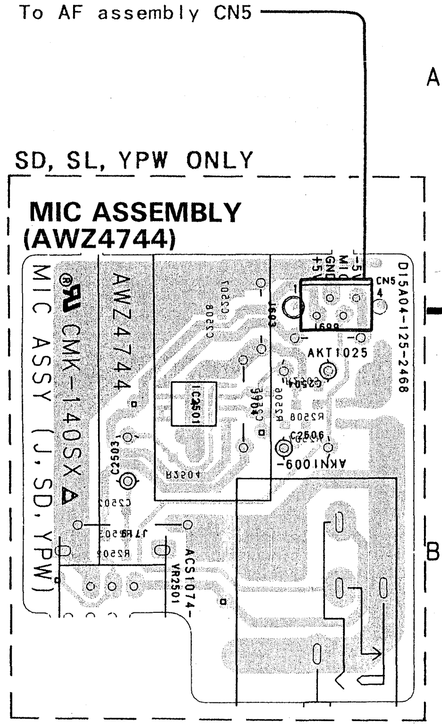
4.3 DISPLAY ASSEMBLY, HEADPHONE ASSEMBLY AND MIC ASSEMBLY

DISPLAY ASSEMBLY (AWZ4704 : HE)
(AWZ4705 : HB)
(AWZ4708 : SD, SL, YPW)

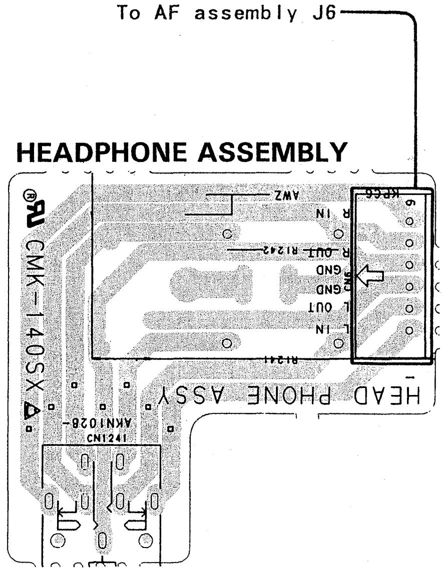

To AF assembly CN1
To AF assembly CN2
A
B
C
D
FUNC IND
POWER
TUNER
TAPE
CD
VIDEO
ST. WIDE
MIX AMP
P.BASS
LOW PASS
ST. WIDE
MOVIE
DISCO
HALL
SFC CLEAR
VOICE SYNTHESIZER
DISPLAY
SFC/GEQ
PROGRAM
MEMORY
VOICE ASSIST
TIME ALL
AUDITION
FUNCTION
NATURAL MODE
DELAY+
DELAY-
FLAT
AGFIX
SP.ANA
SD, SL, YPW ONLY
CMK-140SX
AXX1023
PDG094A
RESET
FREQ/ST
MEMORY
MONO
AUTO PRE
AM WIDE
BAND
TX-
TX+
HB ONLY
SD, SL, YPW ONLY
HE ONLY
AWK
AAV1165
CLK.ADJ
WAKE UP/
REC/+
SET/NEXT
AMR2464
FL AC1
FL AC2
VR3501
Q1706-Q1710
IC1701
IC3703
IC3702
IC3701
Q1705
Q5202
Q3501
IC3501
Q1702
IC1901
Q5203
IC5204
Q5204
Q1902
Q1904
Q1901

SD, SL, YPW ONLY

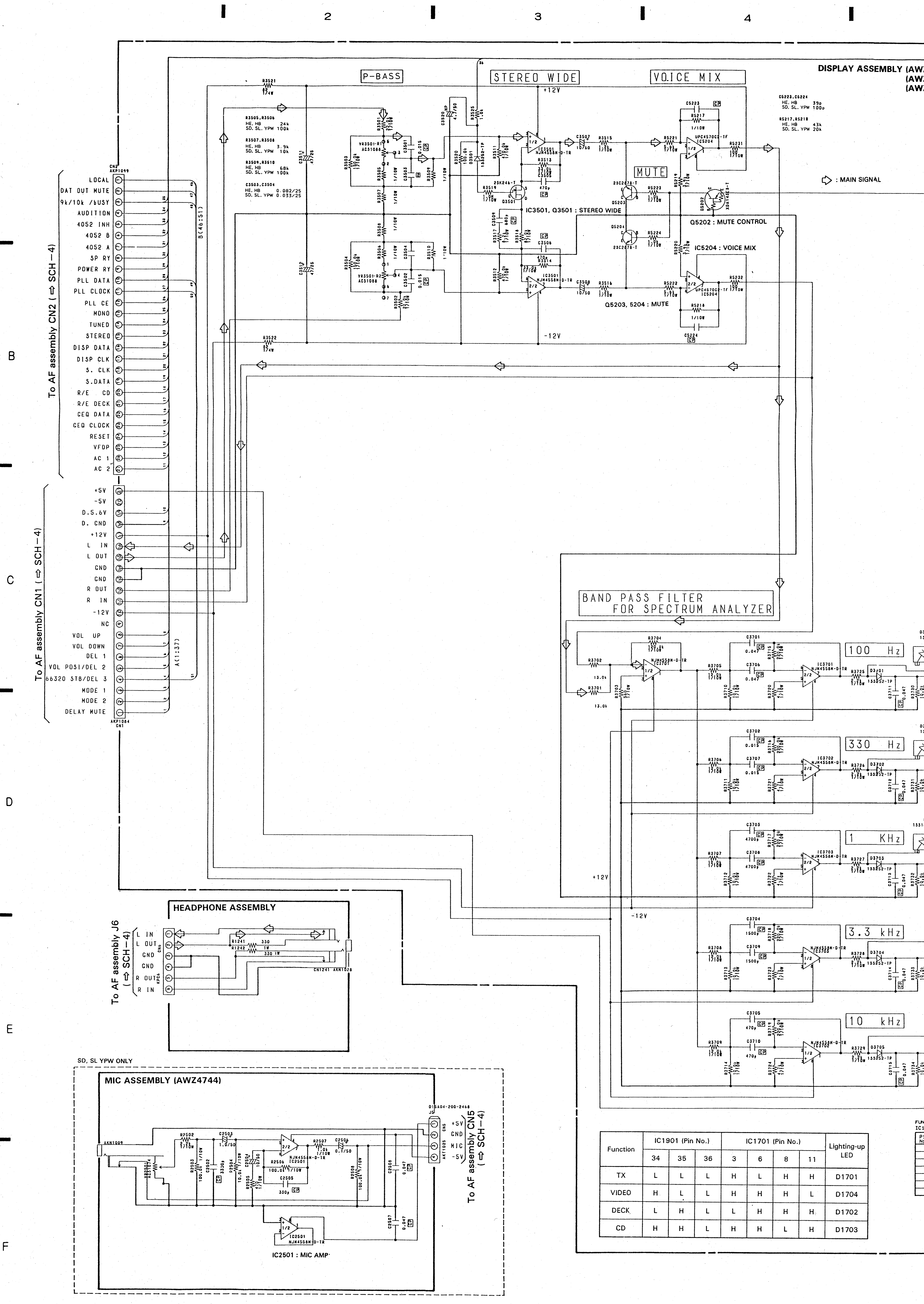
MIC ASSEMBLY (AWZ4744)


To AF assembly CN5
AWZ4744
CMK-140SX
MIC ASSY (J.SD.YPW)
CN5
AKT1025
AKN1009
VR2501

HEADPHONE ASSEMBLY


To AF assembly J6
CMK-140SX
HEAD PHONE ASSY
AKN1028
CN1241
R IN
L OUT
GND
L IN

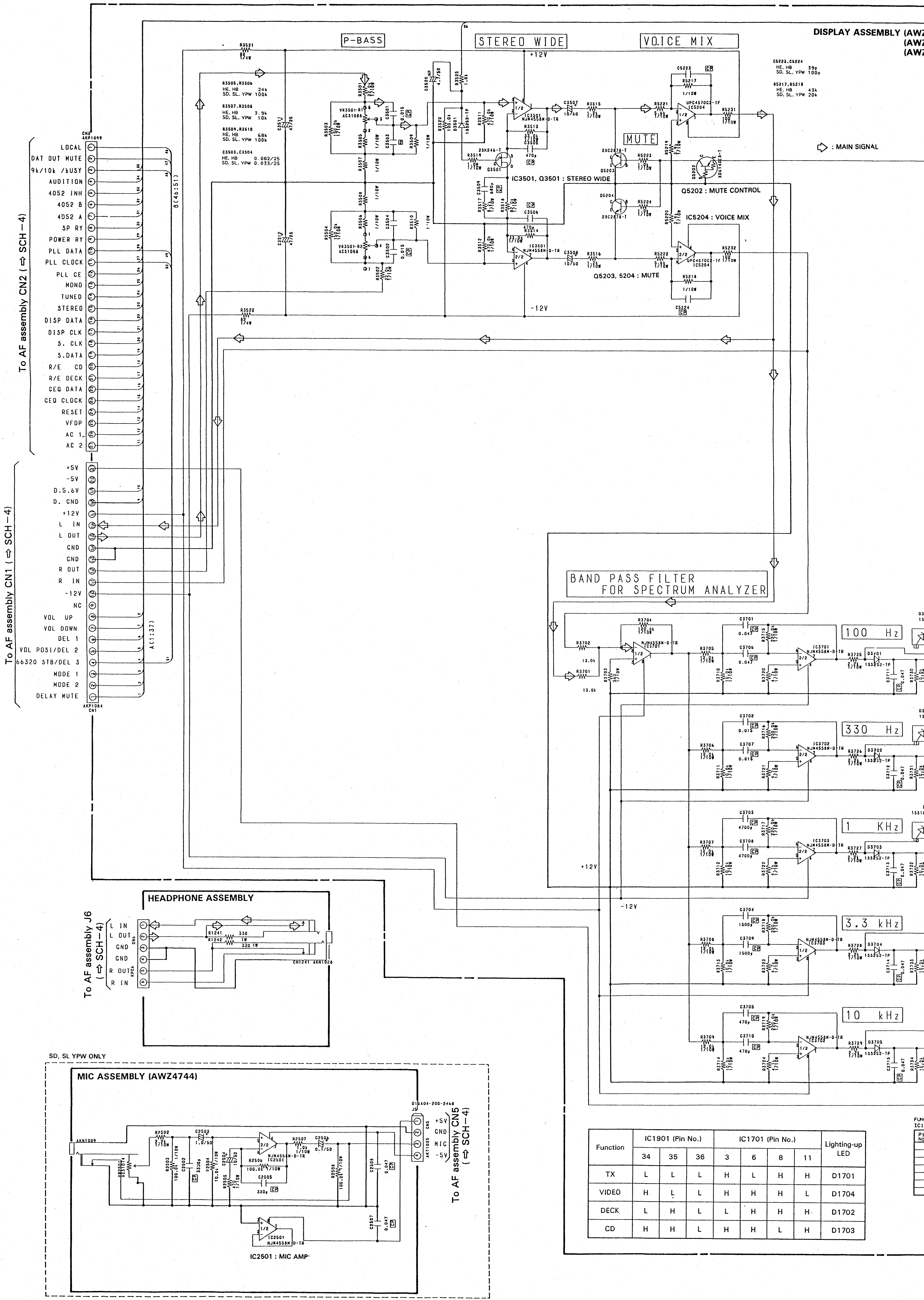
This PCB connection diagram is viewd from the parts mounted side.


1
2
3
4
B
C
D
E
F
DISPLAY ASSEMBLY (AW
(AW
(AW
P-BASS
STEREO WIDE
VOICE MIX
MUTE
+12V
-12V
R3521
82
1/4W
R3505, R3506
HE, HB 24k
SD, SL, YPW 100k
R3507, R3508
HE, HB 3.9k
SD, SL, YPW 10k
R3509, R3510
HE, HB 68k
SD, SL, YPW 100k
C3503, C3504
HE, HB 0.082/25
SD, SL, YPW 0.033/25
C3511 47/25
C3512 47/25
R3522
82
1/4W
VR3501-R1
AC31086
VR3501-R2
AC31086
C3520 NP 4.7/50
R3525 1.0k
IC3501
NJM4558M-D-TR
2SK246-T
Q3501
IC3501, Q3501 : STEREO WIDE
C3507 10/50
C3508 10/50
R3515
R3516
C5223, C5224
HE, HB 39p
SD, SL, YPW 100p
R5217, R5218
HE, HB 43k
SD, SL, YPW 20k
UPC4570C2-TF
IC5204
R5221
R5222
R5231
R5232
2SC2878-T
Q5203
Q5204
Q5202
XDA143ES-T
Q5202 : MUTE CONTROL
IC5204 : VOICE MIX
Q5203, 5204 : MUTE
: MAIN SIGNAL
CN2
AKP1099
LOCAL
DAT OUT MUTE
9k/10k / BUSY
AUDITION
4052 INH
4052 B
4052 A
SP RY
POWER RY
PLL DATA
PLL CLOCK
PLL CE
MONO
TUNED
STEREO
DISP DATA
DISP CLK
S. CLK
S. DATA
R/E CD
R/E DECK
CEQ DATA
CEQ CLOCK
RESET
VFDP
AC 1
AC 2
B(4:51)
To AF assembly CN2 (⇨ SCH-4)
+5V
-5V
D. 5.6V
D. GND
+12V
L IN
L OUT
GND
GND
R OUT
R IN
-12V
NC
VOL UP
VOL DOWN
DEL 1
VOL POSI/DEL 2
66320 STB/DEL 3
MODE 1
MODE 2
DELAY MUTE
AKP1084
CN1
A(1:37)
To AF assembly CN1 (⇨ SCH-4)
BAND PASS FILTER
FOR SPECTRUM ANALYZER
R3701 13.0k
R3702 13.0k
R3704 150.0k
NJM4558M-D-TR
IC3701
100 Hz
330 Hz
1 KHz
3.3 kHz
10 kHz
IC3702
IC3703
C3701 0.047
C3706 0.047
C3702 0.015
C3707 0.015
C3703 4700p
C3708 4700p
C3704 1500p
C3709 1500p
C3705 470p
C3710 470p
D3701
D3702
D3703
D3704
D3705
1SS252-TP
+12V
-12V
HEADPHONE ASSEMBLY
L IN
L OUT
GND
GND
R OUT
R IN
CN6
KPC6
R1241 330
R1242 330 1W
CN1241 AKN1026
To AF assembly J6 (⇨ SCH-4)
SD, SL YPW ONLY
MIC ASSEMBLY (AWZ4744)
AKN1009
R2502
C2503 1.0/50
C2504 10/50
R2506 100.0k
C2505 330p
R2507 1.0k
C2506 0.1/50
R2508 100.0k
VR2501 ACS1074
R2503 100.0k
C2502
C2508 0.047
C2507 0.047
IC2501
NJM4558M-D-TR
IC2501 : MIC AMP
D15A04-200-2468
J5
AKN1025
CN5
+5V
GND
MIC
-5V
To AF assembly CN5 (⇨ SCH-4)

Function	IC1901 (Pin No.)			IC1701 (Pin No.)				Lighting-up LED
	34	35	36	3	6	8	11	
TX	L	L	L	H	L	H	H	D1701
VIDEO	H	L	L	H	H	H	L	D1704
DECK	L	H	L	L	H	H	H	D1702
CD	H	H	L	H	H	L	H	D1703

SCH−3

DISPLAY ASSEMBLY
HEADPHONE ASSEMBLY
MIC ASSEMBLY

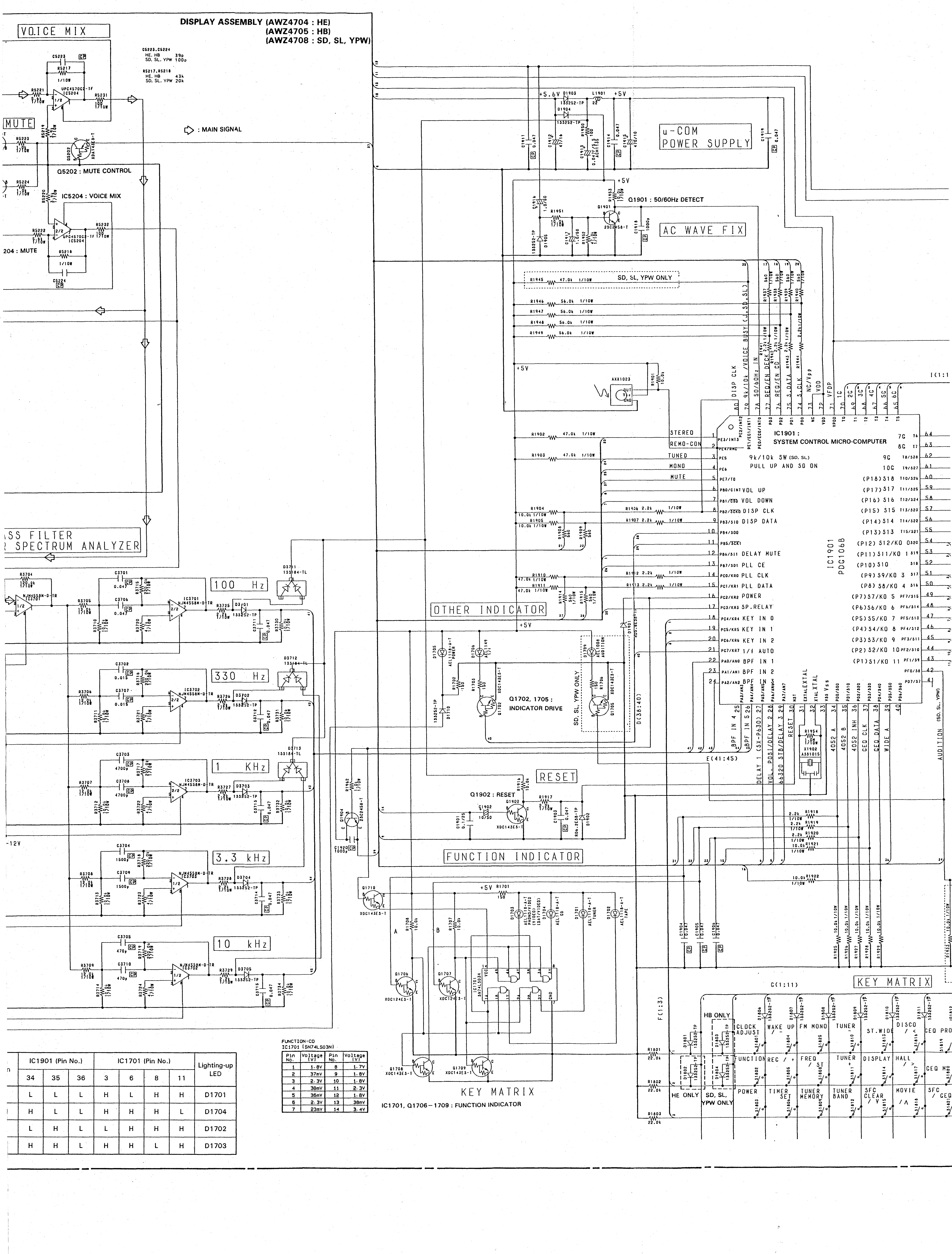

DISPLAY ASSEMBLY (AWZ
(AWZ
(AWZ
P-BASS
STEREO WIDE
VOICE MIX
MUTE
+12V
-12V
▷ : MAIN SIGNAL
IC3501, Q3501 : STEREO WIDE
Q5202 : MUTE CONTROL
IC5204 : VOICE MIX
Q5203, 5204 : MUTE
R3505,R3506 HE, HB 24k SD, SL, YPW 100k
R3507,R3508 HE, HB 3.9k SD, SL, YPW 10k
R3509,R3510 HE, HB 68k SD, SL, YPW 100k
C3503,C3504 HE, HB 0.082/25 SD, SL, YPW 0.033/25
C5223,C5224 HE, HB 39p SD, SL, YPW 100p
R5217,R5218 HE, HB 43k SD, SL, YPW 20k
NJM4558M-D-TR
UPC4570C2-1F
2SK246-T
2SC2878-T
2SC2878-T
2SC2878-T
XN1A48E-T
VR3501-R1 AC31088
VR3501-R2 AC31088
CN2 AKP1099
LOCAL
DAT OUT MUTE
9k/10k /6BUSY
AUDITION
4052 INH
4052 B
4052 A
SP RY
POWER RY
PLL DATA
PLL CLOCK
PLL CE
MONO
TUNED
STEREO
DISP DATA
DISP CLK
S. CLK
S.DATA
R/E CD
R/E DECK
CEQ DATA
CEQ CLOCK
RESET
VFDP
AC 1
AC 2
B(46:51)
To AF assembly CN2 (⇨ SCH-4)
+5V
-5V
D.5.6V
D. GND
+12V
L IN
L OUT
GND
GND
R OUT
R IN
-12V
NC
VOL UP
VOL DOWN
DEL 1
VOL POSI/DEL 2
66320 STB/DEL 3
MODE 1
MODE 2
DELAY MUTE
AKP1084 CN1
A(1:37)
To AF assembly CN1 (⇨ SCH-4)
BAND PASS FILTER FOR SPECTRUM ANALYZER
100 Hz
330 Hz
1 KHz
3.3 kHz
10 kHz
IC3701
IC3702
IC3703
1SS252-TP
HEADPHONE ASSEMBLY
L IN
L OUT
GND
GND
R OUT
R IN
KP26
CN1241 AKN1026
To AF assembly J6 (⇨ SCH-4)
SD, SL YPW ONLY
MIC ASSEMBLY (AWZ4744)
AKN1009
IC2501
IC2501 : MIC AMP
D15A04-200-2468 J5
+5V
GND
MIC
-5V
CN5 AKT1025
To AF assembly CN5 (⇨ SCH-4)

Function	IC1901 (Pin No.)			IC1701 (Pin No.)				Lighting-up LED
	34	35	36	3	6	8	11	
TX	L	L	L	H	L	H	H	D1701
VIDEO	H	L	L	H	H	H	L	D1704
DECK	L	H	L	L	H	H	H	D1702
CD	H	H	L	H	H	L	H	D1703

SCH−3

DISPLAY ASSEMBLY
HEADPHONE ASSEMBLY
MIC ASSEMBLY

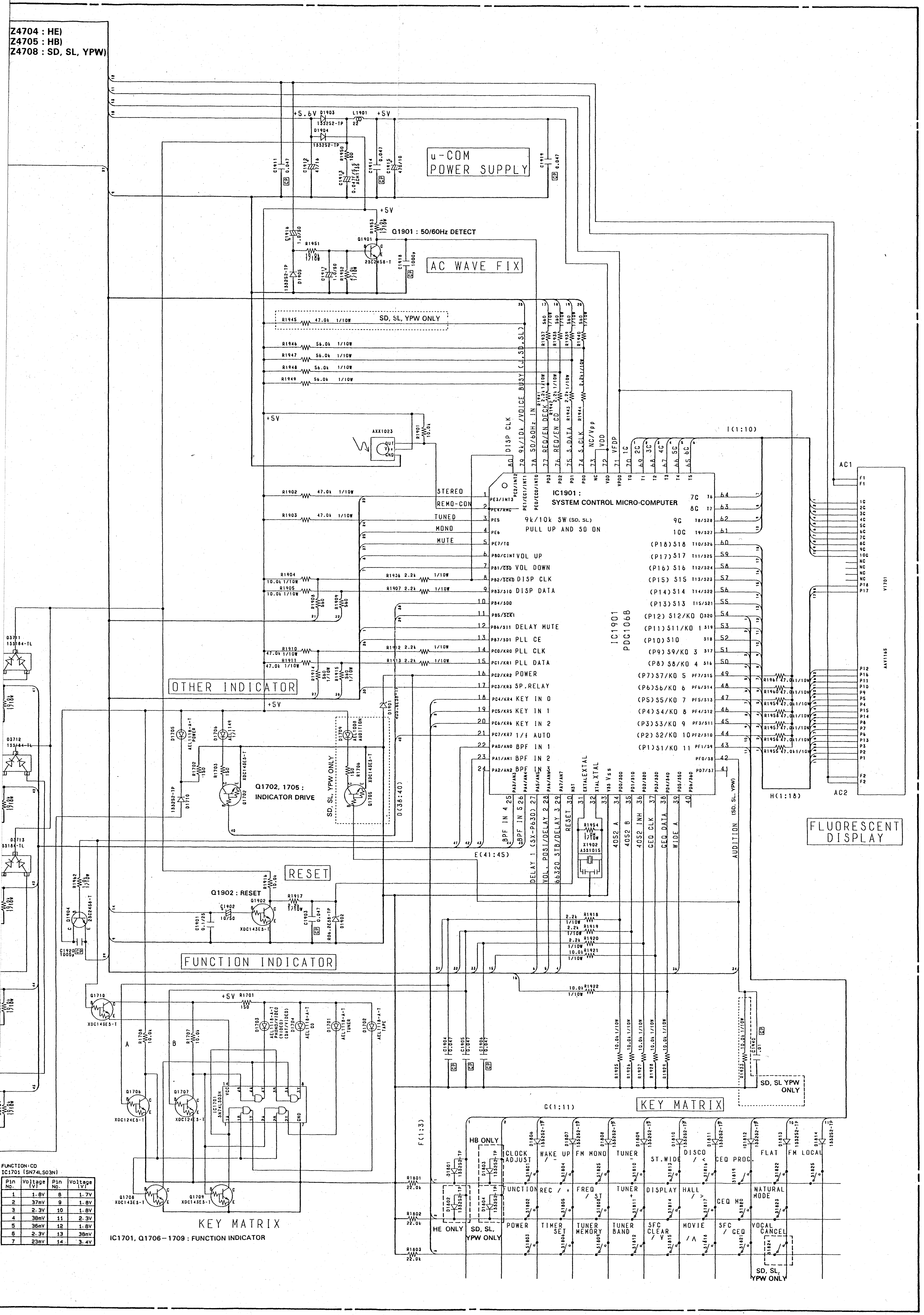
DISPLAY ASSEMBLY (AWZ4704 : HE)
(AWZ4705 : HB)
(AWZ4708 : SD, SL, YPW)


VOICE MIX
C5223,C5224
HE, HB 39p
SD, SL, YPW 100p
R5217,R5218
HE, HB 43k
SD, SL, YPW 20k
MUTE
: MAIN SIGNAL
Q5202 : MUTE CONTROL
IC5204 : VOICE MIX
204 : MUTE
UPC4570C2-1F
IC5204
SS FILTER
SPECTRUM ANALYZER
100 Hz
330 Hz
1 KHz
3.3 kHz
10 kHz
NJM4558M-D-TR
IC3701
IC3702
IC3703
-12V
+5.6V
+5V
L1901
u-COM
POWER SUPPLY
Q1901 : 50/60Hz DETECT
AC WAVE FIX
SD, SL, YPW ONLY
AXX1023
OTHER INDICATOR
Q1702, 1705 :
INDICATOR DRIVE
SD, SL, YPW ONLY
RESET
Q1902 : RESET
FUNCTION INDICATOR
KEY MATRIX
IC1701, Q1706 – 1709 : FUNCTION INDICATOR
IC1901 :
SYSTEM CONTROL MICRO-COMPUTER
IC1901
PDC106B
9k/10k SW (SD, SL)
PULL UP AND SO ON
STEREO
REMO-CON
TUNED
MONO
MUTE
VOL UP
VOL DOWN
DISP CLK
DISP DATA
DELAY MUTE
PLL CE
PLL CLK
PLL DATA
POWER
SP.RELAY
KEY IN 0
KEY IN 1
KEY IN 2
1/f AUTO
BPF IN 1
BPF IN 2
BPF IN 3
BPF IN 4
BPF IN 5
DELAY 1 (SX-P630)
VOL. PDSI/DELAY 2
66320 STB/DELAY 3
RESET
4052 A
4052 B
4052 INH
CEQ CLK
CEQ DATA
WIDE A
AUDITION (SD, SL, YPW)
DISP CLK
9k/10k/VOICE BUSY (J,SD,SL)
50/60Hz IN
REQ/EN DECK
REQ/EN CD
S.DATA
S.CLK
NC/Vpp
VDD
VFDP
D(38:40)
E(41:45)
G(1:11)
F(1:3)
HB ONLY
HE ONLY
SD, SL, YPW ONLY
CLOCK ADJUST
WAKE UP
FM MONO
TUNER
ST.WIDE
DISCO
CEQ PRO
FUNCTION
REC
FREQ
TUNER
DISPLAY
HALL
CEQ MEM
POWER
TIMER SET
TUNER MEMORY
TUNER BAND
SFC CLEAR
MOVIE
SFC / CEQ

FUNCTION:CD
IC1701 (SN74LS03N)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	1.8V	8	1.7V
2	37mV	9	1.8V
3	2.3V	10	1.8V
4	38mV	11	2.3V
5	36mV	12	1.8V
6	2.3V	13	38mV
7	23mV	14	3.4V

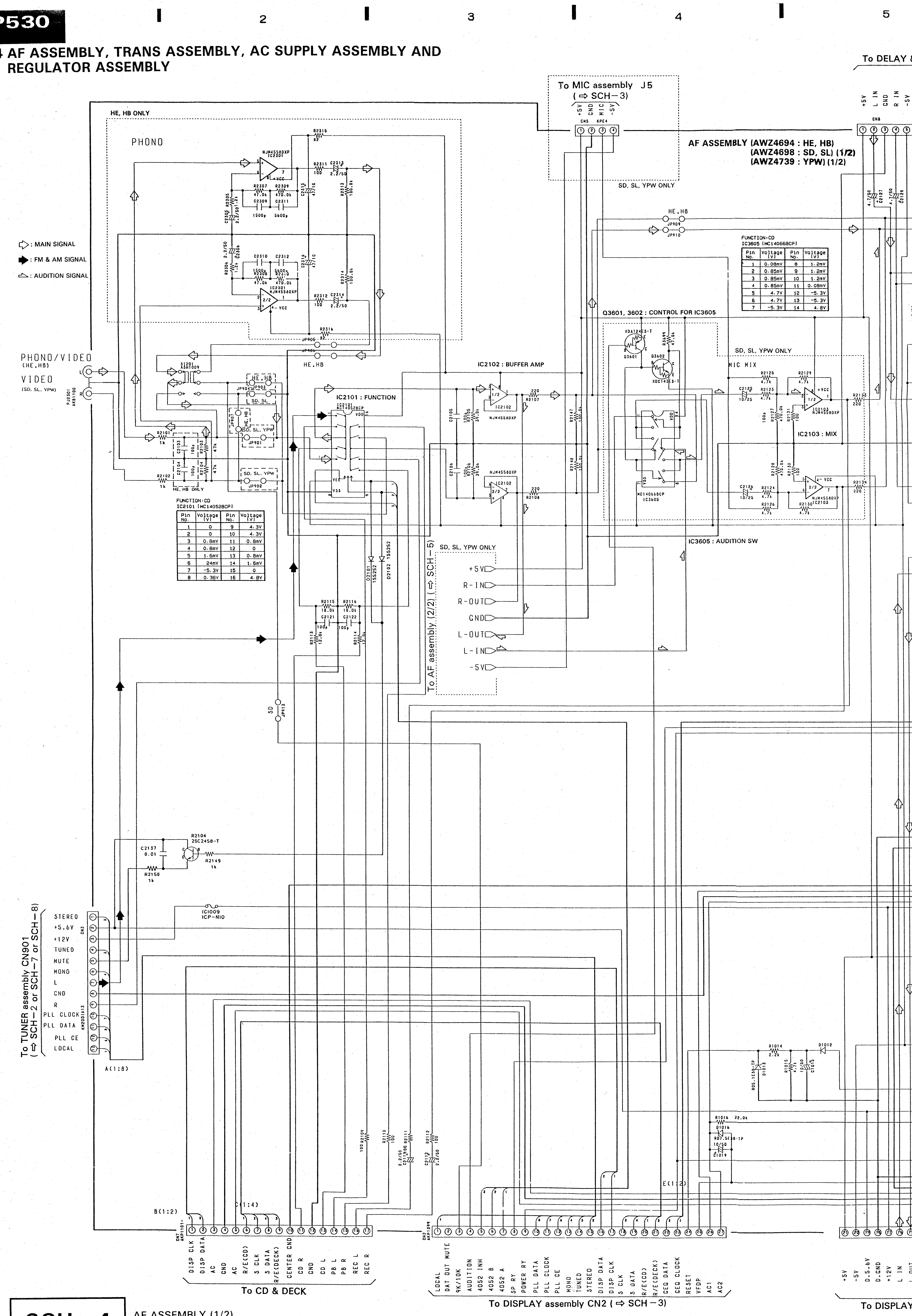
n	IC1901 (Pin No.)			IC1701 (Pin No.)				Lighting-up LED
	34	35	36	3	6	8	11	
	L	L	L	H	L	H	H	D1701
)	H	L	L	H	H	H	L	D1704
	L	H	L	L	H	H	H	D1702
	H	H	L	H	H	L	H	D1703


Z4704 : HE)
Z4705 : HB)
Z4708 : SD, SL, YPW)
u-COM POWER SUPPLY
+5.6V
+5V
Q1901 : 50/60Hz DETECT
AC WAVE FIX
SD, SL, YPW ONLY
AXX1023
IC1901 : SYSTEM CONTROL MICRO-COMPUTER
IC1901 PDC106B
9k/10k SW (SD, SL) PULL UP AND SD ON
STEREO
REMO-CON
TUNED
MONO
MUTE
VOL UP
VOL DOWN
DISP CLK
DISP DATA
DELAY MUTE
PLL CE
PLL CLK
PLL DATA
POWER
SP.RELAY
KEY IN 0
KEY IN 1
KEY IN 2
1/f AUTO
BPF IN 1
BPF IN 2
BPF IN 3
BPF IN 4
BPF IN 5
DELAY 1 (SX-P630)
VOL. POSI/DELAY 2
6632D STB/DELAY 3
RESET
EXTAL
XTAL
Vss
4052 A
4052 B
4052 INH
CEQ CLK
CEQ DATA
WIDE A
AUDITION (SD, SL, YPW)
DISP CLK
9k/10k /VOICE BUSY (J, SD, SL)
50/60Hz IN
REQ/EN DECK
REQ/EN CD
S.DATA
S.CLK
NC/Vpp
VDD
VFDP
I(1:10)
AC1
AC2
H(1:18)
V1701
AAV1165
FLUORESCENT DISPLAY
OTHER INDICATOR
Q1702, 1705 : INDICATOR DRIVE
SD, SL, YPW ONLY
D(36:40)
E(41:45)
RESET
Q1902 : RESET
FUNCTION INDICATOR
KEY MATRIX
G(1:11)
F(1:3)
SD, SL YPW ONLY
HB ONLY
CLOCK ADJUST
WAKE UP
FM MONO
TUNER
ST.WIDE
DISCO
CEQ PROG.
FLAT
FM LOCAL
FUNCTION
REC / +
FREQ / ST
TUNER
DISPLAY
HALL
CEQ MC
NATURAL MODE
HE ONLY
SD, SL, YPW ONLY
POWER
TIMER SET
TUNER MEMORY
TUNER BAND
SFC CLEAR
MOVIE
SFC / CEQ
VOCAL CANCEL
SD, SL, YPW ONLY
KEY MATRIX
IC1701, Q1706 - 1709 : FUNCTION INDICATOR
A
B

FUNCTION:CD
IC1701 (SN74LS03N)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	1.8V	8	1.7V
2	37mV	9	1.8V
3	2.3V	10	1.8V
4	38mV	11	2.3V
5	36mV	12	1.8V
6	2.3V	13	38mV
7	23mV	14	3.4V

4.4 AF ASSEMBLY, TRANS ASSEMBLY, AC SUPPLY ASSEMBLY AND REGULATOR ASSEMBLY


1
2
3
4
5
A
B
C
D
E
F
To DELAY &
To MIC assembly J5
(⇨ SCH−3)
+5V
GND
MIC
-5V
CN5 XPE4
SD, SL, YPW ONLY
AF ASSEMBLY (AWZ4694 : HE, HB)
(AWZ4698 : SD, SL) (1/2)
(AWZ4739 : YPW) (1/2)
HE, HB ONLY
PHONO
⇨ : MAIN SIGNAL
➡ : FM & AM SIGNAL
△ : AUDITION SIGNAL
NJM4558DXP IC2301
R2315 82
R2311 100
C2313 2.2/50
R2307 47.0k
R2309 470.0k
C2309 1500p
C2311 5600p
C2315 47/10
R2313 100.0k
R2305 1.2k
C2305 2.2/50
C2306 2.2/50
R2306 1.2k
C2310 1500p
C2312 5600p
R2308 47.0k
R2310 470.0k
C2316 47/10
R2314 100.0k
IC2301 NJM4558DXP
R2312 100
C2314 2.2/50
R2316 82
JP905
JP906
HE, HB
JP909
JP910
PHONO/VIDEO
(HE, HB)
VIDEO
(SD, SL, YPW)
PJ2301 AKB1100
S1201 AHR1009
JP904
JP903
HE, HB
SD, SL
JP907
SD, SL, YPW
JP901
SD, SL, YPW
JP902
R2101 1k
R2102 1k
C2103 100p
C2104 100p
R2103 47k
R2104 47k
HE, HB ONLY
IC2101 : FUNCTION
IC2101 MC14052BCP
VDD
VEE
VSS
IC2102 : BUFFER AMP
C2105
C2106
R2105 100k
R2106 100k
1/2 IC2102
NJM4558DXP
2/2 IC2102
220 R2107
220 R2108
R2147 100.0k
R2148 100.0k
D2101 1SS252
D2102 1SS252
R2115 18.0k
R2116 18.0k
C2121 100p
C2122 100p
R2113 12.0k
R2114 12.0k
SD, SL, YPW ONLY
+5V
R-IN
R-OUT
GND
L-OUT
L-IN
-5V
To AF assembly (2/2) (⇨ SCH−5)
SD JP913
Q3601, 3602 : CONTROL FOR IC3605
XDA124ES-T
Q3601
R3609 47.0k
Q3602
XDC143ES-T
MC14066BCP IC3605
VDD
VSS
IC3605 : AUDITION SW
SD, SL, YPW ONLY
MIC MIX
R2125 4.7k
R2129 4.7k
C2125 10/25
R2123 4.7k
R2127 100p
R2131 100p
1/2 IC2103 NJM4558DXP
R2133 220
IC2103 : MIX
R2128 100p
R2132 100p
C2126 10/25
R2124 4.7k
R2126 4.7k
R2130 4.7k
2/2 IC2103 NJM4558DXP
R2134 220
C2127 4.7/50
C2128 4.7/50
+5V
L IN
GND
R IN
-5V
CN8
C2137 0.01
R2104 2SC2458-T
R2149 1k
R2150 1k
IC1009 ICP-N10
STEREO
+5.6V
+12V
TUNED
MUTE
MONO
L
GND
R
PLL CLOCK
PLL DATA
PLL CE
LOCAL
CN3 KM200IA13
To TUNER assembly CN901
(⇧ SCH−2 or SCH−7 or SCH−8)
A(1:8)
R1014 2.2k
D1012
RD5.1ESB-TP D1013
R1015 10/50
C1015
R1016 22.0k
D1016
RD7.5ESB-TP
10/50 C1019
R2109 100
R2110 100
C2111 2.2/50
R2111 100
C2112 2.2/50
R2112 100
B(1:2)
C(1:4)
E(1:2)
CN7 AKP1101-
DISP CLK
DISP DATA
AC
GND
AC
R/E(CD)
S CLK
S DATA
R/E(DECK)
CENTER GND
CD R
GND
CD L
PB L
PB R
REC L
REC R
To CD & DECK
CN2 AKP1099
LOCAL
DAT OUT MUTE
9K/10K
AUDITION
4052 INH
4052 B
4052 A
SP RY
POWER RY
PLL DATA
PLL CLOCK
PLL CE
MONO
TUNED
STEREO
DISP DATA
DISP CLK
S CLK
S DATA
R/E(CD)
R/E(DECK)
CEQ DATA
CEQ CLOCK
RESET
VFDP
AC1
AC2
To DISPLAY assembly CN2 (⇨ SCH−3)
+5V
-5V
D.5.6V
D.GND
+12V
L IN
L OUT
To DISPLAY

FUNCTION:CD
IC2101 (MC14052BCP)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	0	9	4.3V
2	0	10	4.3V
3	0.8mV	11	0.8mV
4	0.8mV	12	0
5	1.6mV	13	0.8mV
6	24mV	14	1.6mV
7	-5.3V	15	0
8	0.36V	16	4.8V

FUNCTION:CD
IC3605 (MC14066BCP)

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	0.08mV	8	1.2mV
2	0.85mV	9	1.2mV
3	0.85mV	10	1.2mV
4	0.85mV	11	0.08mV
5	4.7V	12	-5.3V
6	4.7V	13	-5.3V
7	-5.3V	14	4.8V

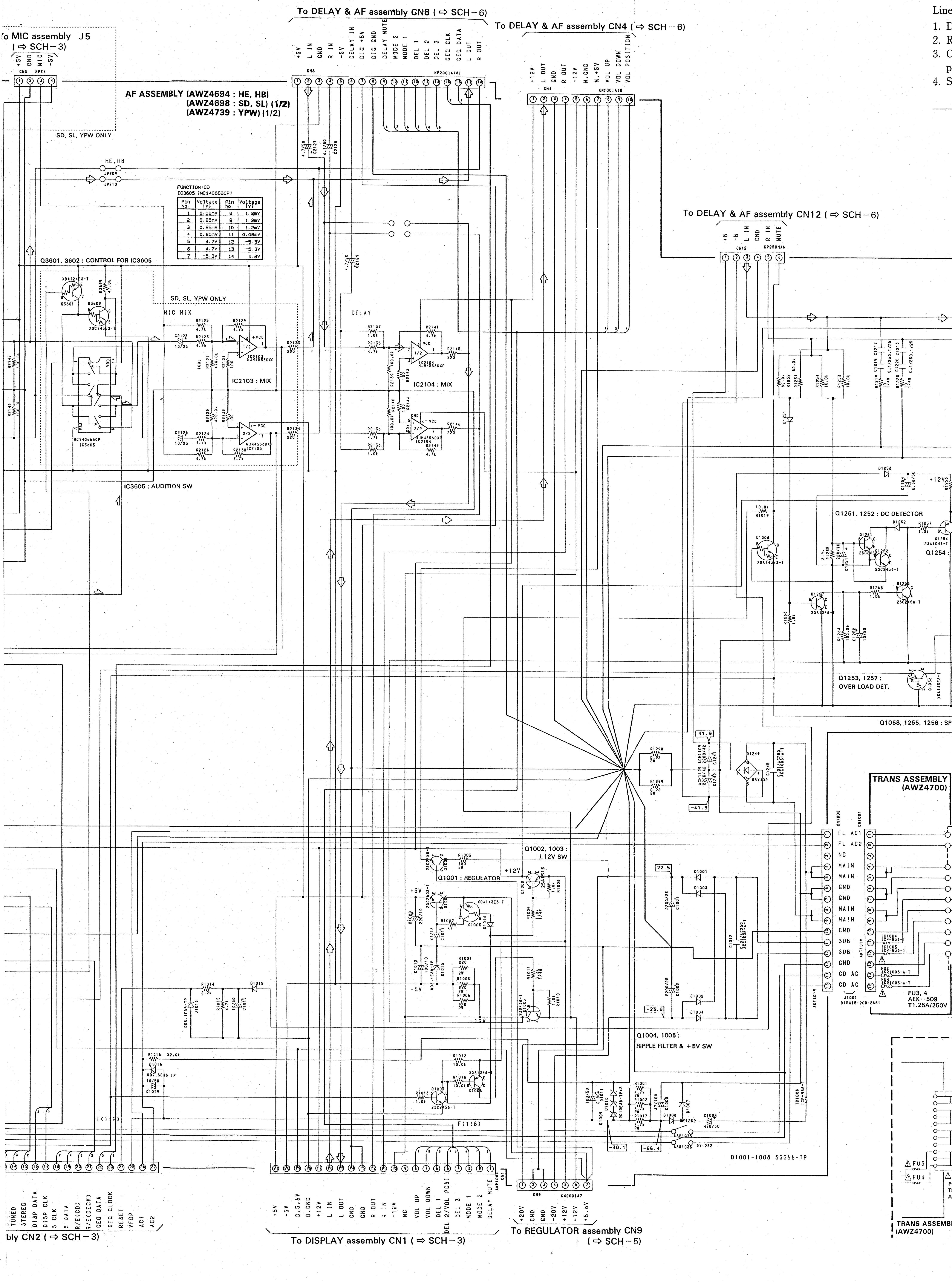
Line

Line

1. D
2. R
3. C

p

4. S


4
5
6
7
8
To MIC assembly J5
(⇨ SCH−3)
+5V
GND
MIC
-5V
CN5 KPE4
SD, SL, YPW ONLY
To DELAY & AF assembly CN8 (⇨ SCH−6)
+5V
L IN
GND
R IN
-5V
DELAY IN
DIG +5V
DIG GND
DELAY MUTE
MODE 2
MODE 1
DEL 1
DEL 2
DEL 3
GEQ CLK
GEQ DATA
L OUT
R OUT
CN8
KP2001A18L
AF ASSEMBLY (AWZ4694 : HE, HB)
(AWZ4698 : SD, SL) (1/2)
(AWZ4739 : YPW) (1/2)
To DELAY & AF assembly CN4 (⇨ SCH−6)
+12V
L OUT
GND
R OUT
-12V
M.GND
M.+5V
VOL UP
VOL DOWN
VOL POSITION
CN4
KM200IA10
HE, HB
JP909
JP910
Q3601, 3602 : CONTROL FOR IC3605
XDA124ES-T
Q3601
Q3602
XDC143ES-T
R3699
MIC MIX
DELAY
IC2103 : MIX
IC2104 : MIX
IC3605 : AUDITION SW
MC14066BCP
IC3605
NJM4558DXP
To DELAY & AF assembly CN12 (⇨ SCH−6)
+B
-B
L IN
GND
R IN
MUTE
CN12
KP250NA6
Q1251, 1252 : DC DETECTOR
Q1254
Q1253, 1257 :
OVER LOAD DET.
Q1058, 1255, 1256 : SP
TRANS ASSEMBLY
(AWZ4700)
FL AC1
FL AC2
NC
MAIN
MAIN
GND
GND
MAIN
MAIN
GND
SUB
SUB
GND
CD AC
CD AC
AKT1019
J1001
DISA1S-200-2651
FU3, 4
AEK-509
T1.25A/250V
Q1001 : REGULATOR
Q1002, 1003 :
±12V SW
Q1004, 1005 :
RIPPLE FILTER & +5V SW
41.9
-41.9
22.5
-23.8
-30.1
-66.4
D1001-1008 SS566-TP
RY1252
E(1:2)
F(1:8)
TUNED
STEREO
DISP DATA
DISP CLK
S CLK
S DATA
R/E(CD)
R/E(DECK)
GEQ DATA
GEQ CLOCK
RESET
VFDP
AC1
AC2
bly CN2 (⇨ SCH−3)
+5V
-5V
D.5.6V
D.GND
+12V
L IN
L OUT
GND
GND
R OUT
R IN
-12V
NC
VOL UP
VOL DOWN
DEL 1
DEL 2/VOL POSI
DEL 3
MODE 1
MODE 2
DELAY MUTE
To DISPLAY assembly CN1 (⇨ SCH−3)
+20V
GND
GND
-20V
+12V
-12V
+5.6V
CN9
KM200IA7
To REGULATOR assembly CN9
(⇨ SCH−5)
TRANS ASSEMB
(AWZ4700)

FUNCTION:CD
IC3605 (MC14066BCP)

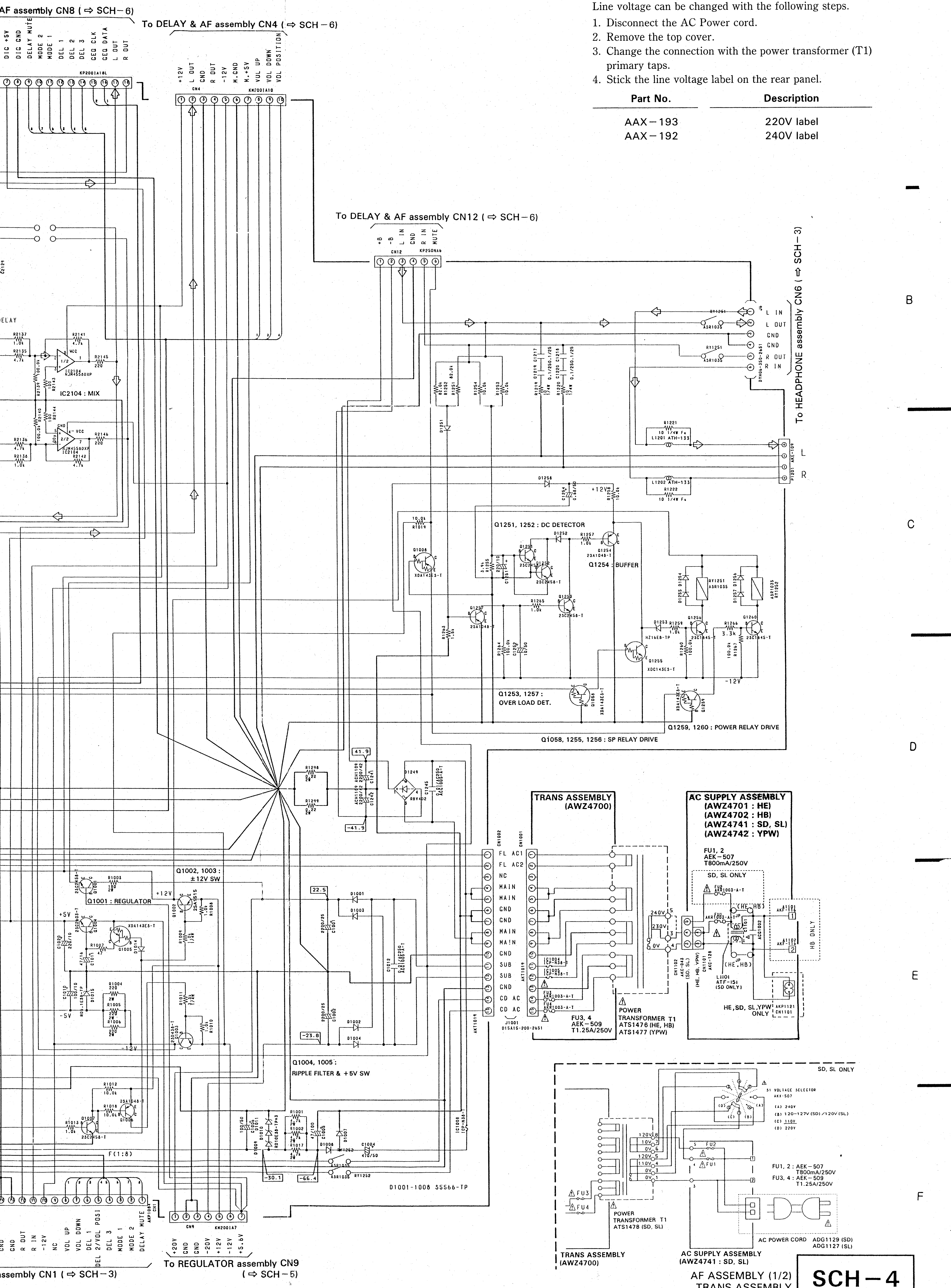
Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	0.08mV	8	1.2mV
2	0.85mV	9	1.2mV
3	0.85mV	10	1.2mV
4	0.85mV	11	0.08mV
5	4.7V	12	-5.3V
6	4.7V	13	-5.3V
7	-5.3V	14	4.8V

Line Voltage Selection

Line voltage can be changed with the following steps.

1. Disconnect the AC Power cord.
2. Remove the top cover.
3. Change the connection with the power transformer (T1) primary taps.
4. Stick the line voltage label on the rear panel.

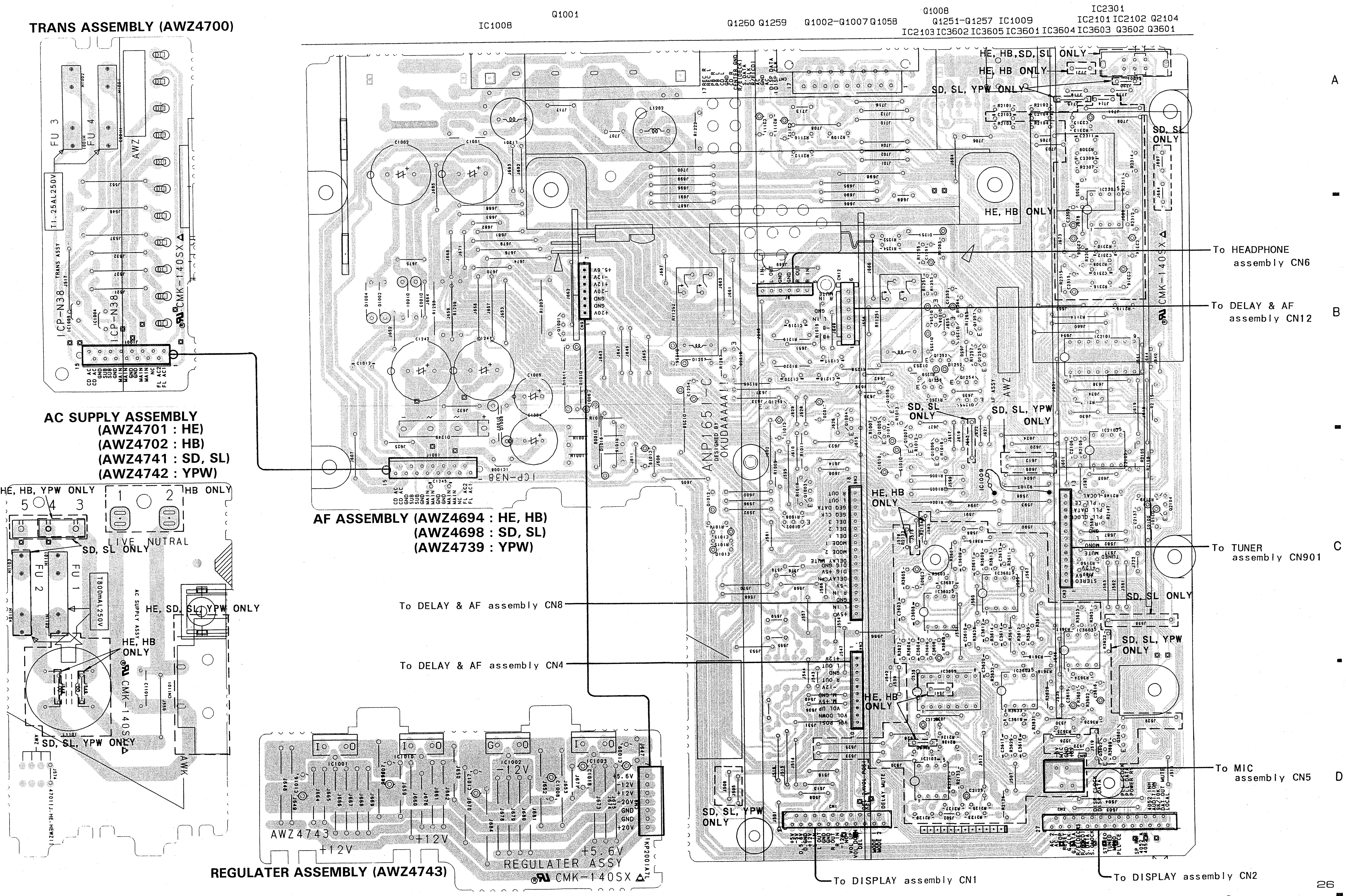
Part No.	Description
AAX－193	220V label
AAX－192	240V label


6
7
8
9
AF assembly CN8 (⇨ SCH－6)
To DELAY & AF assembly CN4 (⇨ SCH－6)
DIG +5V
DIG GND
DELAY MUTE
MODE 2
MODE 1
DEL 1
DEL 2
DEL 3
GEQ CLK
GEQ DATA
L OUT
R OUT
KP200IA18L
+12V
L OUT
GND
R OUT
-12V
M.GND
M.+5V
VOL UP
VOL DOWN
VOL POSITION
CN4
KN200IA10
To DELAY & AF assembly CN12 (⇨ SCH－6)
+B
-B
L IN
GND
R IN
MUTE
CN12
KP250NA6
To HEADPHONE assembly CN6 (⇨ SCH－3)
L IN
L OUT
GND
GND
R OUT
R IN
L
R
IC2104 : MIX
NJM4560DXP
Q1251, 1252 : DC DETECTOR
Q1254 : BUFFER
Q1253, 1257 : OVER LOAD DET.
Q1259, 1260 : POWER RELAY DRIVE
Q1058, 1255, 1256 : SP RELAY DRIVE
RY1251 ASR1035
RY1252 ASR1035
L1201 ATH-133
L1202 ATH-133
+12V
-12V
41.9
-41.9
TRANS ASSEMBLY (AWZ4700)
AC SUPPLY ASSEMBLY (AWZ4701 : HE) (AWZ4702 : HB) (AWZ4741 : SD, SL) (AWZ4742 : YPW)
FU1, 2 AEK－507 T800mA/250V
SD, SL ONLY
HB ONLY
HE, SD, SL, YPW ONLY
FL AC1
FL AC2
NC
MAIN
MAIN
GND
GND
MAIN
MAIN
GND
SUB
SUB
GND
CD AC
CD AC
CN1002
CN1001
J1001
FU3, 4 AEK－509 T1.25A/250V
POWER TRANSFORMER T1 ATS1476 (HE, HB) ATS1477 (YPW)
240V
230V
0V
L1101 ATF-151 (SD ONLY)
Q1001 : REGULATOR
Q1002, 1003 : ±12V SW
+5V
-5V
22.5
-23.8
Q1004, 1005 : RIPPLE FILTER & +5V SW
F(1:8)
-30.1
-66.4
D1001-1008 SS566-TP
SD, SL ONLY
S1 VOLTAGE SELECTOR AKX-507
(A) 240V
(B) 120-127V (SD) / 120V (SL)
(C) 110V
(D) 220V
120V
110V
0V
FU2
FU1
FU3
FU4
FU1, 2 : AEK－507 T800mA/250V
FU3, 4 : AEK－509 T1.25A/250V
POWER TRANSFORMER T1 ATS1478 (SD, SL)
AC POWER CORD ADG1129 (SD) ADG1127 (SL)
TRANS ASSEMBLY (AWZ4700)
AC SUPPLY ASSEMBLY (AWZ4741 : SD, SL)
GND
GND
R OUT
R IN
-12V
NC
VOL UP
VOL DOWN
DEL 1
DEL 2/VOL POSI
DEL 3
MODE 1
MODE 2
DELAY MUTE
assembly CN1 (⇨ SCH－3)
+20V
GND
GND
-20V
+12V
-12V
+5.6V
CN9
KN200IA7
To REGULATOR assembly CN9 (⇨ SCH－5)

AF ASSEMBLY (1/2)
TRANS ASSEMBLY
AC SUPPLY ASSEMBLY

SCH－4

This PCB connection diagram is viewd from the parts mounted side.



TRANS ASSEMBLY (AWZ4700)

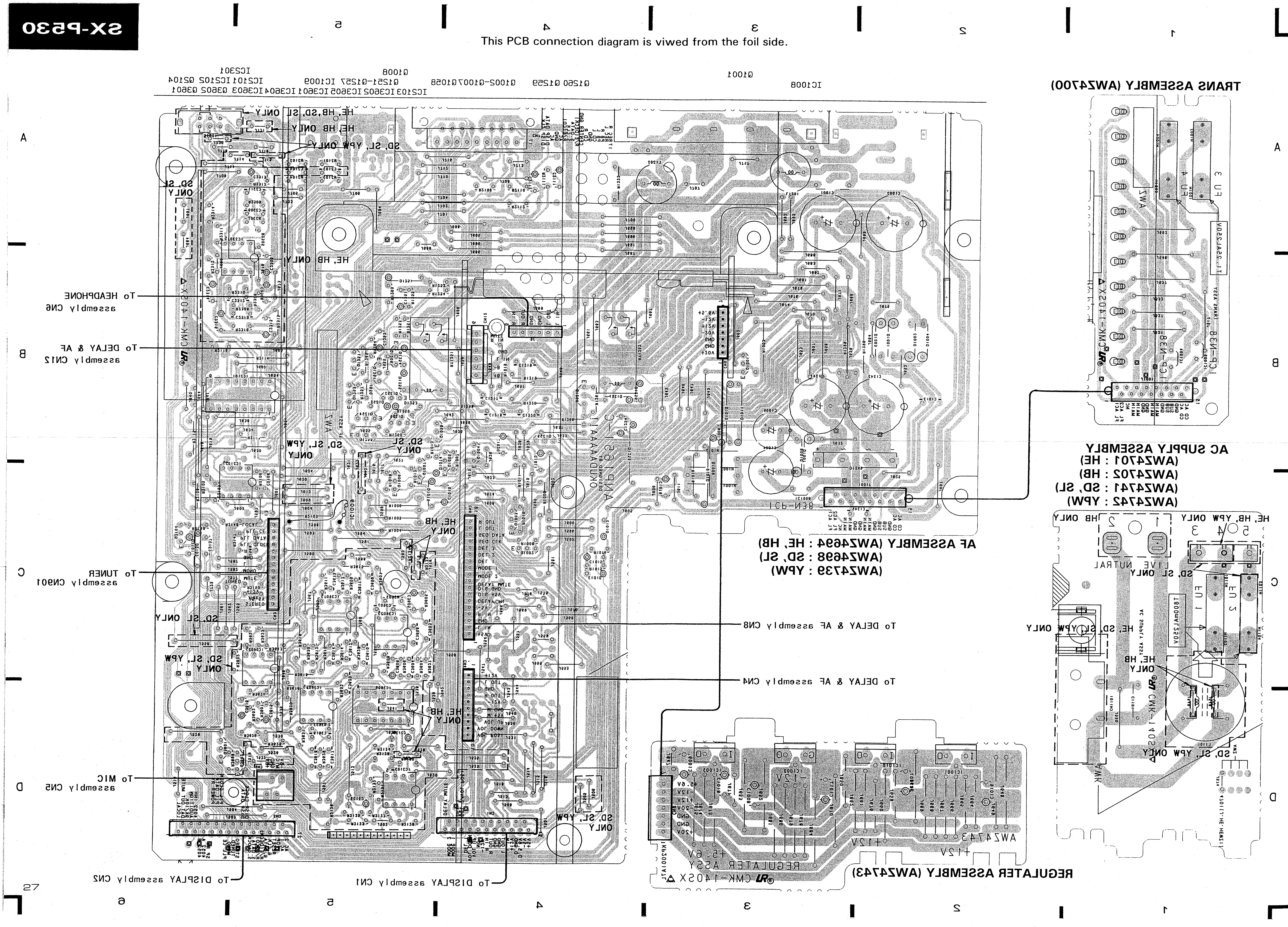
AC SUPPLY ASSEMBLY
(AWZ4701 : HE)
(AWZ4702 : HB)
(AWZ4741 : SD, SL)
(AWZ4742 : YPW)

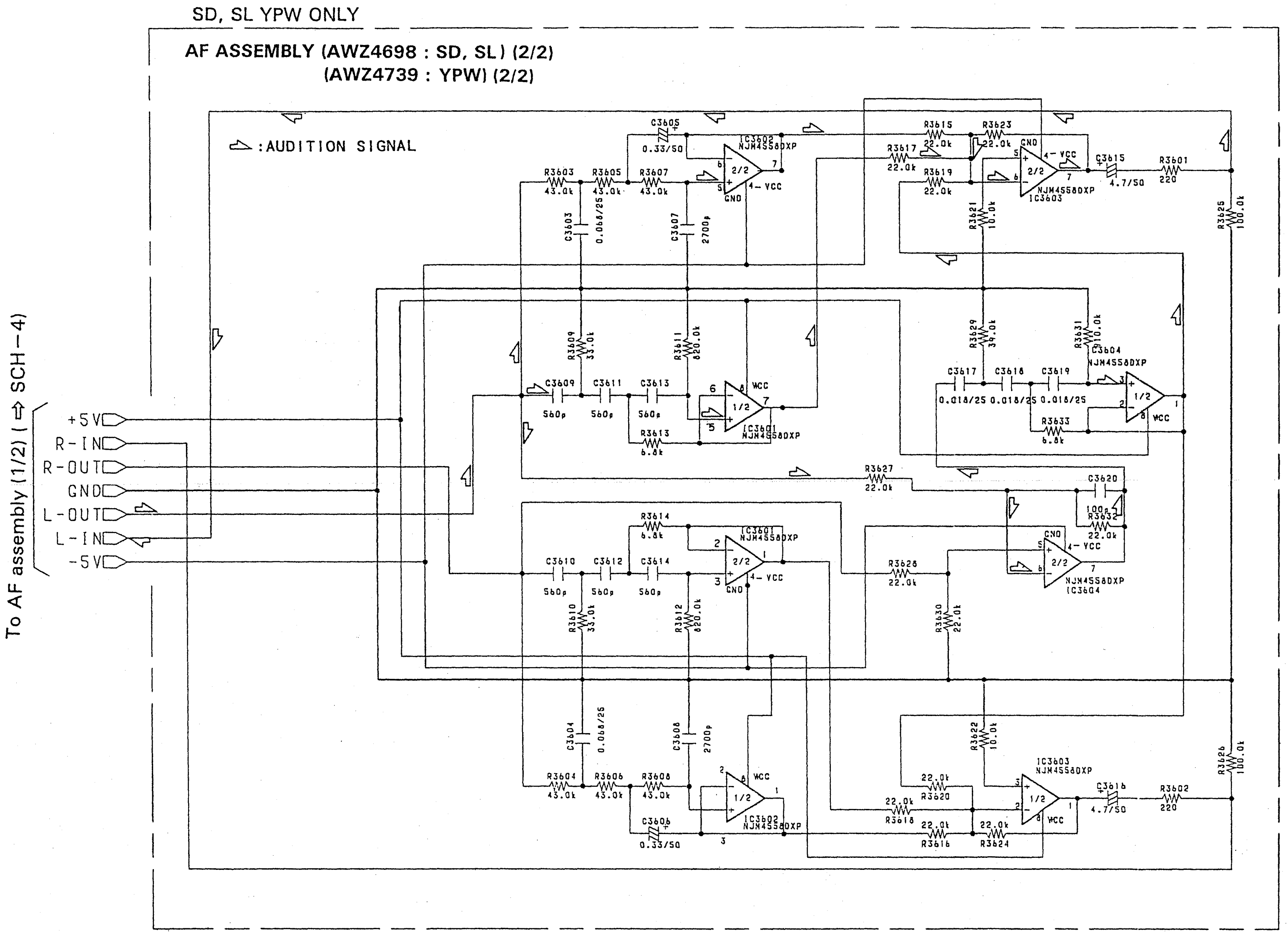
AF ASSEMBLY (AWZ4694 : HE, HB)
(AWZ4698 : SD, SL)
(AWZ4739 : YPW)

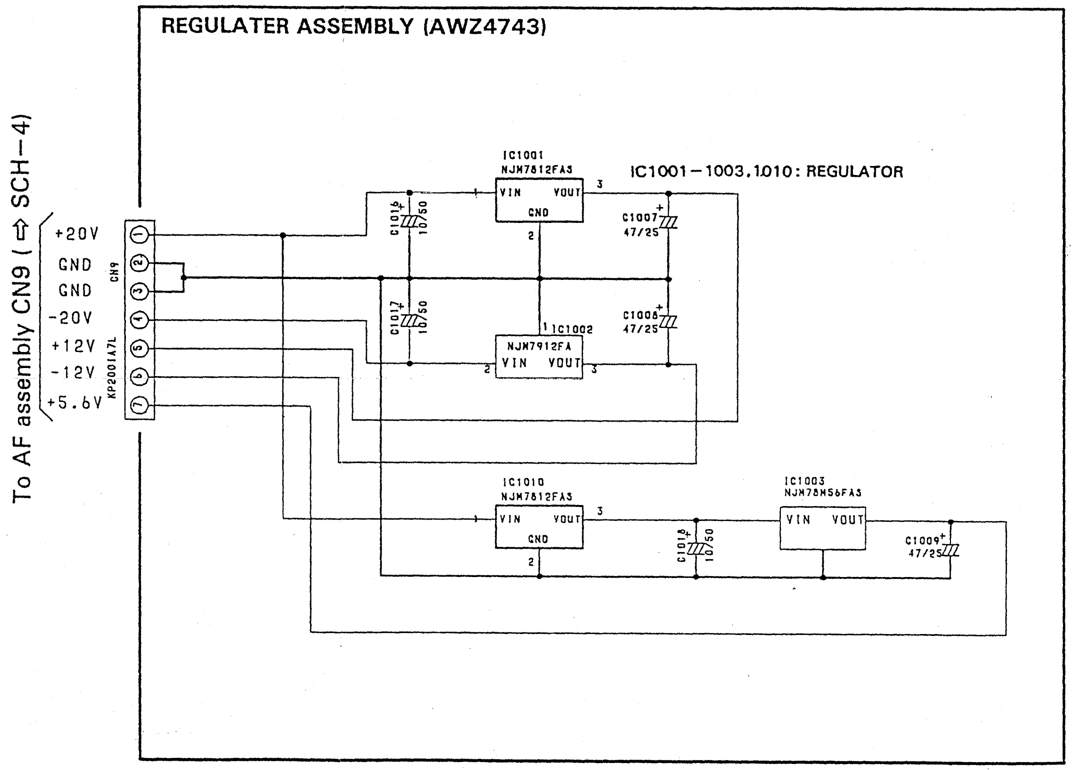
REGULATER ASSEMBLY (AWZ4743)

1
2
3
4
5
6
A
B
C
D
IC1008
Q1001
Q1260 Q1259
Q1002–Q1007 Q1058
Q1008
Q1251–Q1257 IC1009
IC2103 IC3602 IC3605 IC3601 IC3604 IC3603 Q3602 Q3601
IC2301
IC2101 IC2102 Q2104
HE, HB, SD, SL ONLY
HE, HB ONLY
SD, SL, YPW ONLY
SD, SL ONLY
HE, HB ONLY
To HEADPHONE assembly CN6
To DELAY & AF assembly CN12
To TUNER assembly CN901
To MIC assembly CN5
To DISPLAY assembly CN1
To DISPLAY assembly CN2
To DELAY & AF assembly CN8
To DELAY & AF assembly CN4
SD, SL ONLY
SD, SL, YPW ONLY
HE, HB ONLY
SD, SL, YPW ONLY
HE, HB ONLY
SD, SL, YPW ONLY
FU 3
FU 4
T1.25AL250V
ICP-N38
CMK-140SX
HE, HB, YPW ONLY
HB ONLY
LIVE
NUTRAL
SD, SL ONLY
FU 2
FU 1
T800mAL250V
AC SUPPLY ASSY
HE, SD, SL, YPW ONLY
HE, HB ONLY
SD, SL, YPW ONLY
CMK-140S
AWK
ANP1651-C
DESIGNED BY OKUDAAAAA!!
AWZ
AWZ4743
+12V
-12V
+5.6V
REGULATER ASSY
CMK-140SX

This PCB connection diagram is viwed from the foil side.


6
5
4
3
2
1
A
B
C
D
IC2301
IC2101 IC2102 Q2104
IC2103 IC3602 IC3605 IC3601 IC3604 IC3603 Q3602 Q3601
Q1008
Q1251–Q1257 IC1009
Q1002–Q1007,Q1058
Q1260 Q1259
Q1001
IC1008
TRANS ASSEMBLY (AWZ4700)
AC SUPPLY ASSEMBLY
(AWZ4701 : HE)
(AWZ4702 : HB)
(AWZ4741 : SD, SL)
(AWZ4742 : YPW)
AF ASSEMBLY (AWZ4694 : HE, HB)
(AWZ4698 : SD, SL)
(AWZ4739 : YPW)
REGULATER ASSEMBLY (AWZ4743)
To HEADPHONE assembly CN6
To DELAY & AF assembly CN12
To TUNER assembly CN901
To MIC assembly CN5
To DISPLAY assembly CN2
To DISPLAY assembly CN1
To DELAY & AF assembly CN8
To DELAY & AF assembly CN4
HE, HB, SD, SL ONLY
HE, HB ONLY
SD, SL, YPW ONLY
SD, SL ONLY
HE, HB, YPW ONLY
HB ONLY
LIVE
NUTRAL
T800mAL250V
FU 1
FU 2
REGULATER ASSY
CMK-140SX
+5.6V
+12V
AWZ4743


SD, SL YPW ONLY
AF ASSEMBLY (AWZ4698 : SD, SL) (2/2)
(AWZ4739 : YPW) (2/2)
:AUDITION SIGNAL
To AF assembly (1/2) (⇨ SCH-4)
+5V
R-IN
R-OUT
GND
L-OUT
L-IN
-5V
C3605 0.33/50
IC3602 NJM4558DXP
R3603 43.0k
R3605 43.0k
R3607 43.0k
C3603 0.068/25
C3607 2700p
R3609 33.0k
R3611 820.0k
C3609 560p
C3611 560p
C3613 560p
R3613 6.8k
IC3601 NJM4558DXP
R3615 22.0k
R3623 22.0k
R3617 22.0k
R3619 22.0k
IC3603 NJM4558DXP
C3615 4.7/50
R3601 220
R3625 100.0k
R3621 10.0k
R3629 39.0k
R3631 10.0k
IC3604 NJM4558DXP
C3617 0.018/25
C3618 0.018/25
C3619 0.018/25
R3633 6.8k
R3627 22.0k
C3620 100p
R3632 22.0k
R3614 6.8k
C3610 560p
C3612 560p
C3614 560p
R3610 33.0k
R3612 820.0k
R3628 22.0k
R3630 22.0k
C3604 0.068/25
C3608 2700p
R3604 43.0k
R3606 43.0k
R3608 43.0k
C3606 0.33/50
R3622 10.0k
R3620 22.0k
R3618 22.0k
R3616 22.0k
R3624 22.0k
C3616 4.7/50
R3602 220
R3626 100.0k
VCC
GND
-VCC
1/2
2/2


REGULATER ASSEMBLY (AWZ4743)
To AF assembly CN9 (⇨ SCH-4)
+20V
GND
GND
-20V
+12V
-12V
+5.6V
CN9
KP200IA7L
IC1001 NJM7812FAS
IC1001-1003,1010: REGULATOR
VIN VOUT GND
C1016 10/50
C1007 47/25
C1017 10/50
C1008 47/25
IC1002 NJM7912FA
IC1010 NJM7812FAS
IC1003 NJM78M56FAS
C1018 10/50
C1009 47/25

4.5 DELAY & AF ASSEMBLY

IC1201 (STK4152-2GP)

Pin No.	Voltage (V)	Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	-0.27V	7	-35.5V	13	-12.2mV
2	-0.27V	8	-36.1V	14	-36.4V
3	-0.22mV	9	-36.4V	15	-1.27V
4	-30.5V	10	-10.5mV	16	-0.4mV
5	-1.27V	11	36.4V	17	-0.25V
6	3.8V	12	34.6V	18	-0.25V

IC1501 (TA8409S)

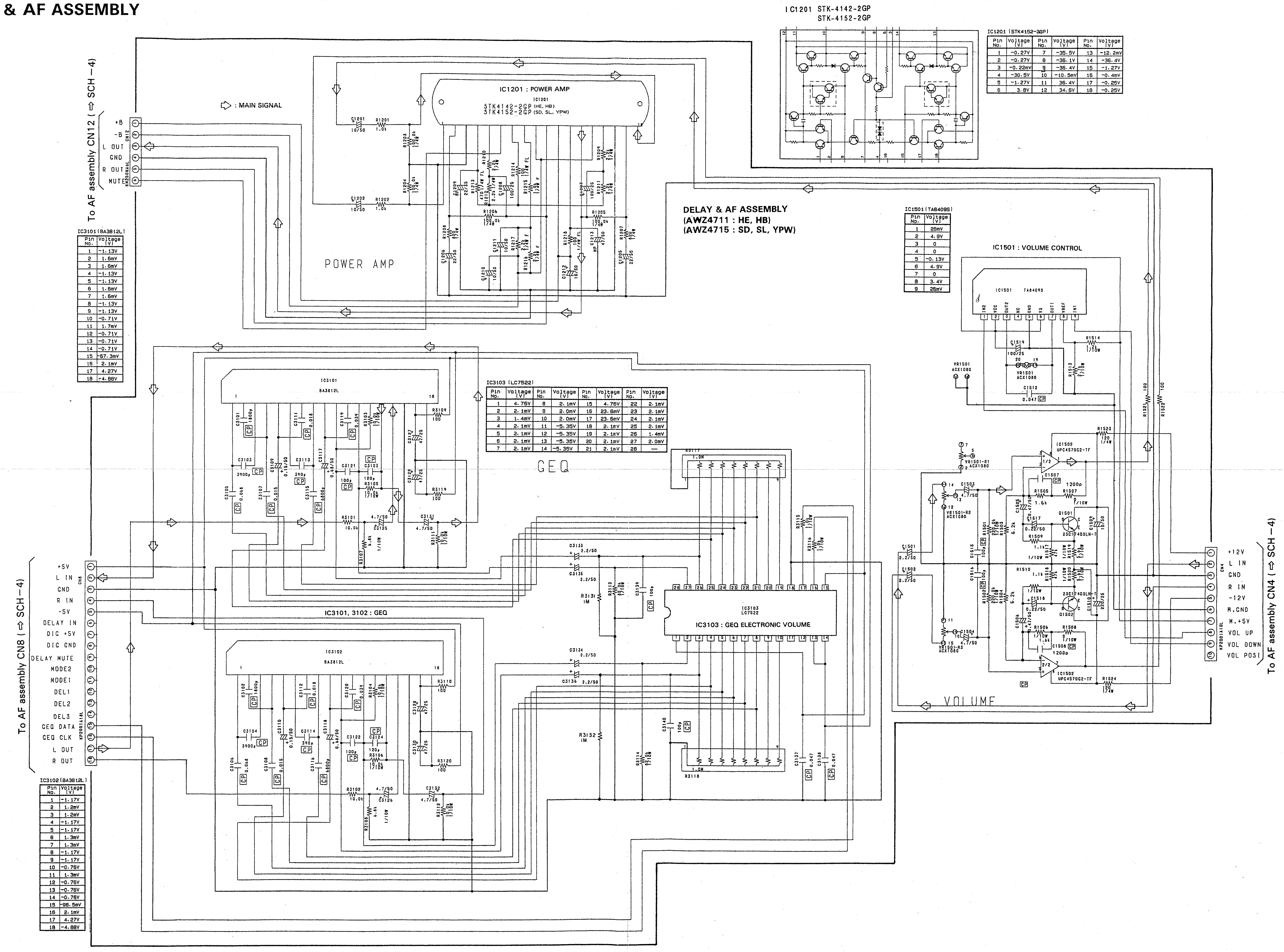
Pin No.	Voltage (V)
1	26mV
2	4.9V
3	0
4	0
5	-0.13V
6	4.9V
7	0
8	3.4V
9	26mV

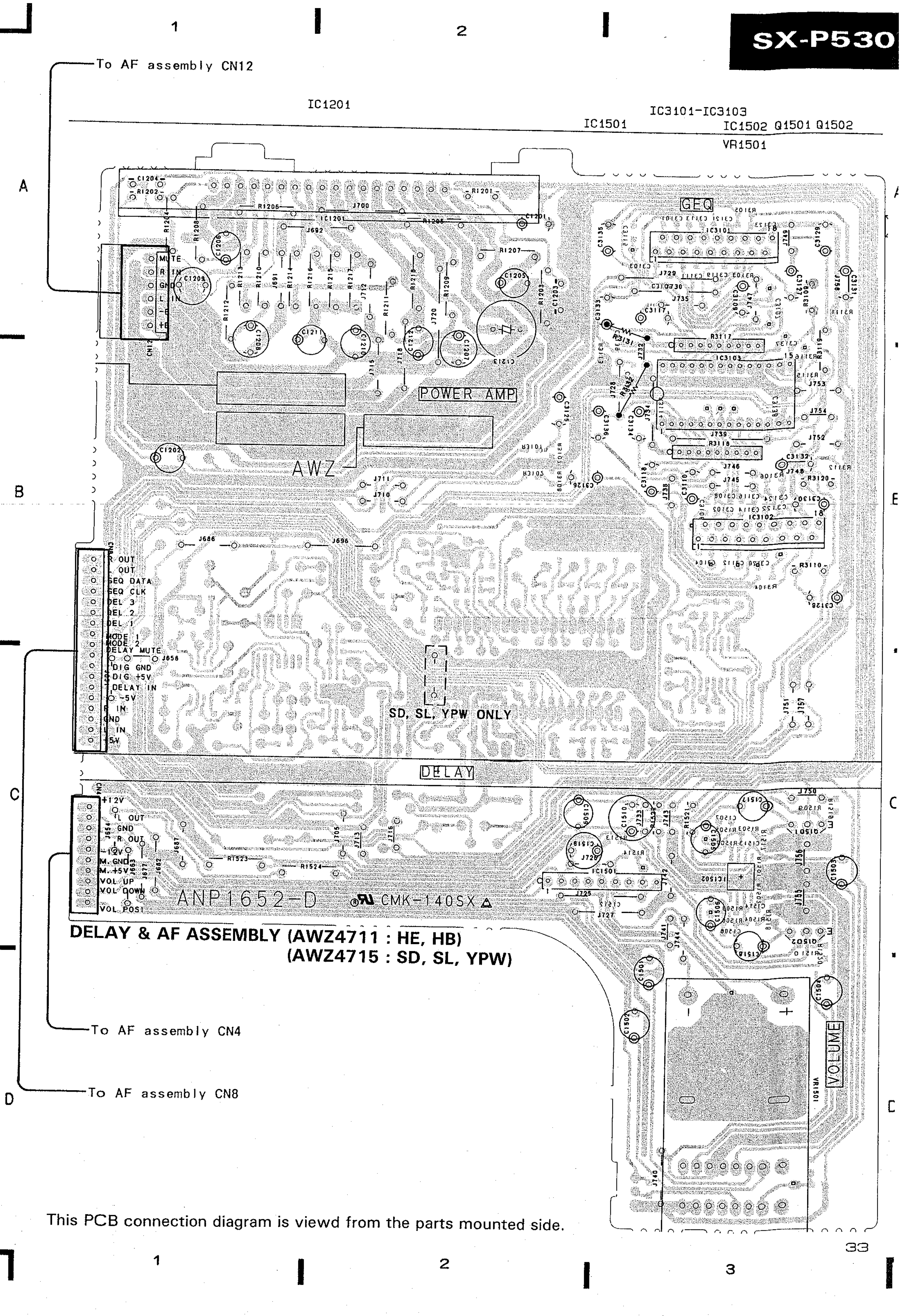
IC3101 (BA3812L)

Pin No.	Voltage (V)
1	-1.13V
2	1.6mV
3	1.6mV
4	-1.13V
5	-1.13V
6	1.6mV
7	1.6mV
8	-1.13V
9	-1.13V
10	-0.71V
11	1.7mV
12	-0.71V
13	-0.71V
14	-0.71V
15	-67.3mV
16	2.1mV
17	4.27V
18	-4.88V

IC3103 (LC7522)

Pin No.	Voltage (V)	Pin No.	Voltage (V)	Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	4.76V	8	2.1mV	15	4.76V	22	2.1mV
2	2.1mV	9	2.0mV	16	23.6mV	23	2.1mV
3	1.4mV	10	2.0mV	17	23.6mV	24	2.1mV
4	2.1mV	11	-5.35V	18	2.1mV	25	2.1mV
5	2.1mV	12	-5.35V	19	2.1mV	26	1.4mV
6	2.1mV	13	-5.35V	20	2.1mV	27	2.0mV
7	2.1mV	14	-5.35V	21	2.1mV	28	—

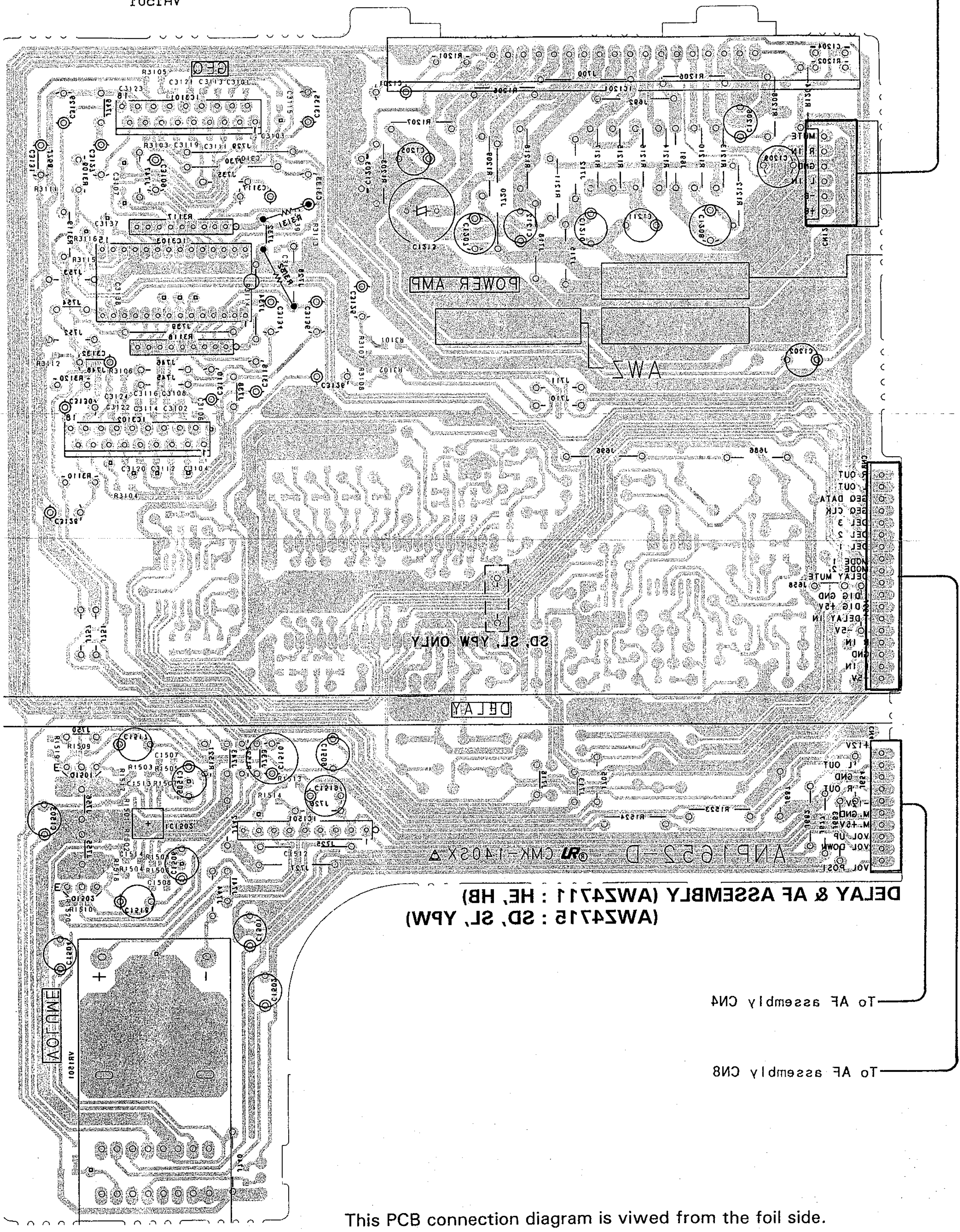

IC1201 STK-4142-2GP
STK-4152-2GP
IC1201 : POWER AMP
IC1201
STK4142-2GP (HE, HB)
STK4152-2GP (SD, SL, YPW)
: MAIN SIGNAL
POWER AMP
DELAY & AF ASSEMBLY
(AWZ4711 : HE, HB)
(AWZ4715 : SD, SL, YPW)
IC1501 : VOLUME CONTROL
IC1501 TA8409S
To AF assembly CN12 (⇨ SCH-4)
+B
-B
L OUT
GND
R OUT
MUTE
KM250NA
IC3101
BA3812L
IC3101, 3102 : GEQ
IC3102
BA3812L
GEQ
IC3103
LC7522
IC3103 : GEQ ELECTRONIC VOLUME
To AF assembly CN8 (⇨ SCH-4)
+5V
L IN
GND
R IN
-5V
DELAY IN
DIC +5V
DIC GND
DELAY MUTE
MODE2
MODE1
DEL1
DEL2
DEL3
GEQ DATA
GEQ CLK
L OUT
R OUT
KP200IA18L
IC1502
UPC4570C2-TF
Q1501
Q1502
2SC1740SLN-T
VR1501
ACX1080
VOLUME
To AF assembly CN4 (⇨ SCH-4)
+12V
L IN
GND
R IN
-12V
M.GND
M.+5V
VOL UP
VOL DOWN
VOL POSI
KP200IA10L
A
B
C
D


1
2
3
A
B
C
D
To AF assembly CN12
IC1201
IC3101-IC3103
IC1501
IC1502 Q1501 Q1502
VR1501
GEQ
POWER AMP
AWZ
CN12
MUTE
R IN
GND
L IN
-B
+B
R OUT
L OUT
SEQ DATA
SEQ CLK
DEL 3
DEL 2
DEL 1
MODE 1
MODE 2
DELAY MUTE
DIG GND
DIG +5V
DELAY IN
-5V
R IN
GND
L IN
+5V
SD, SL, YPW ONLY
DELAY
+12V
L OUT
GND
R OUT
-12V
M. GND
M. +5V
VOL UP
VOL DOWN
VOL POS1
ANP1652-D
CMK-140SX
VOLUME
To AF assembly CN4
To AF assembly CN8

DELAY & AF ASSEMBLY (AWZ4711 : HE, HB)
(AWZ4715 : SD, SL, YPW)

This PCB connection diagram is viewd from the parts mounted side.

IC3101-IC3103 IC1201
IC1502 Q1501 Q1502 IC1501
VR1501


To AF assembly CN12
GEQ
POWER AMP
AWZ
MUTE
R IN
GND
L IN
-B
+B
CN12
R OUT
L OUT
SEQ DATA
SEQ CLK
DEL 3
DEL 2
DEL 1
MODE 1
MODE 2
DELAY MUTE
DIG GND
DIG +5V
DELAY IN
-5V
R IN
GND
L IN
+5V
SD, SL, YPW ONLY
DELAY
+12V
L OUT
GND
R OUT
-12V
M GND
M +5V
VOL UP
VOL DOWN
VOL POSI
ANP1652-D
CMK-140SX
VOLUME
VR1501
To AF assembly CN4
To AF assembly CN8
A
B
C
D

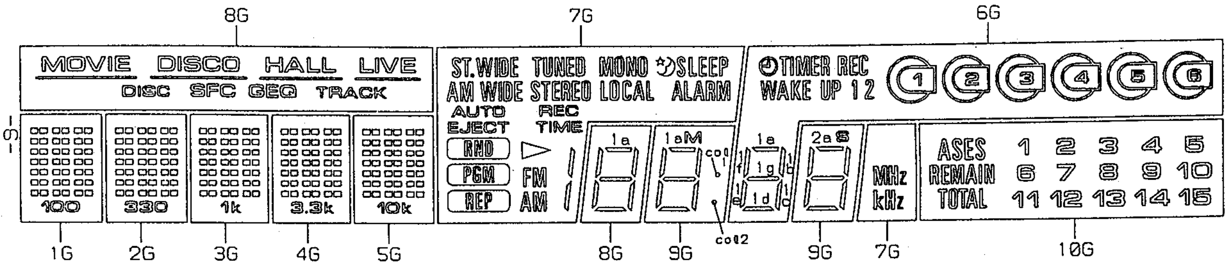
DELAY & AF ASSEMBLY (AWZ4711 : HE, HB)
(AWZ4715 : SD, SL, YPW)

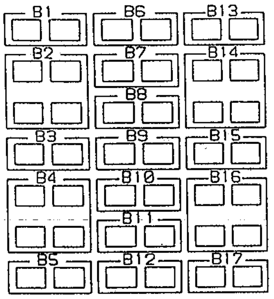
This PCB connection diagram is viwed from the foil side.

AAV1165 (V1701 : DISPLAY ASSEMBLY)

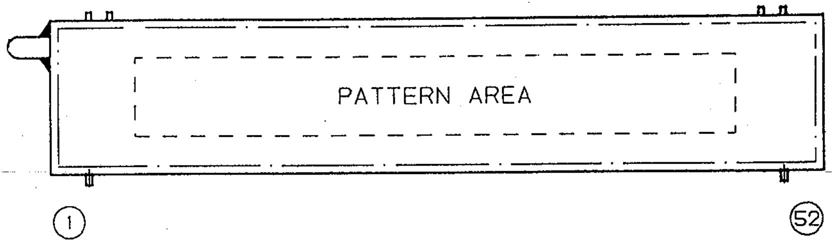
● FL Tube

● Grid Assignment


8G
7G
6G
MOVIE DISCO HALL LIVE
DISC SFC GEQ TRACK
ST.WIDE TUNED MONO SLEEP
AM WIDE STEREO LOCAL ALARM
TIMER REC
WAKE UP 1 2
AUTO EJECT
REC TIME
RND
PGM
REP
FM
AM
1a
1aM
col
1e
1g
1d
2aS
col2
MHz
kHz
ASES
REMAIN
TOTAL
1 2 3 4 5
6 7 8 9 10
11 12 13 14 15
100
330
1k
3.3k
10k
1G
2G
3G
4G
5G
8G
9G
9G
7G
10G


B1
B2
B3
B4
B5
B6
B7
B8
B9
B10
B11
B12
B13
B14
B15
B16
B17

(10G~6G)


PATTERN AREA
①
(52)

● Pin Connection

PIN NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
CONNECTION	F1	F1	NP	NP	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	NC	NC	NC	NC	P18	P17	NP	NP	NP	NP	NP	NP

PIN NO.	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
CONNECTION	NP	NP	NP	NP	NP	NP	P12	P16	P11	P10	P9	P5	P4	P15	P14	P8	P7	P6	P13	P3	P2	P1	NP	NP	F2	F2

NOTE
1) F1,F2 --- Filament
2) NP ------ No pin
3) NC ------ No connection
4) 1G~10G --- Grid
5) DL ------- Datum Line

● Anode Connection

	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	5	MS	TRACK	SLEEP	TIMER	B1	B1	B1	B1	B1
P2	4	1b	1b	LOCAL	⑥	B2	B2	B2	B2	B2
P3	8	1c	1c	AM WIDE	REC	B3	B3	B3	B3	B3
P4	7	1e	1e	TIME	2	B4	B4	B4	B4	B4
P5	11	1d	1d	PGM	②	B5	B5	B5	B5	B5
P6	10	1a	1a	ALARM	WAKE UP	B6	B6	B6	B6	B6
P7	9	1f	1f	TUNED	⑤	B7	B7	B7	B7	B7
P8	14	1g	1g	ST.WIDE	④	B8	B8	B8	B8	B8
P9	13	col1	DISC	AUTO EJECT	1	B9	B9	B9	B9	B9
P10	12	col2	(HALL)	/	③	B10	B10	B10	B10	B10
P11	1	2g	(DISCO)	▷	1g	B11	B11	B11	B11	B11
P12	ASES	2e	LIVE	REP	1e	B12	B12	B12	B12	B12
P13	15	2a	GEQ	MONO	1a	B13	B13	B13	B13	B13
P14	3	2b	SFC	STEREO	1b	B14	B14	B14	B14	B14
P15	2	2f	(LIVE)	REC	1f	B15	B15	B15	B15	B15
P16	6	2c	(MOVIE)	RND	1c	B16	B16	B16	B16	B16
P17	REMAIN	2d	DISCO HALL	FM MHz	1d	B17	B17	B17	B17	B17
P18	TOTAL	-	MOVIE	AM kHz	①	10k	3.3k	1k	330	100

5. PCB PARTS LIST

NOTES :

- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560Ω → 56 × 10^1 → 561 .... RD1/8PM $\boxed{5}\boxed{6}\boxed{1}$ J
47kΩ → 47 × 10^3 → 473 .... RD1/4PS $\boxed{4}\boxed{7}\boxed{3}$ J
0.5Ω → 0R5 .... RN2H $\boxed{0}\boxed{R}\boxed{5}$ K
1Ω → 010 .... RS1P $\boxed{0}\boxed{1}\boxed{0}$ K

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62kΩ → 562 × 10^1 → 5621 .... RM1/4PC $\boxed{5}\boxed{6}\boxed{2}\boxed{1}$ F

Mark	No.	Description	Parts No.
LIST OF ASSEMBLIES			
		TUNER ASSEMBLY	AWE1226
		AF ASSEMBLY	AWZ4694
		TRANS ASSEMBLY	AWZ4700
		AC SUPPLY ASSEMBLY	AWZ4701
		DISPLAY ASSEMBLY	AWZ4704
		DELAY & AF ASSEMBLY	AWZ4711
NSP		HEADPHONE ASSEMBLY	AWZ4716
		REGULATER ASSEMBLY	AWZ4743
TUNER ASSEMBLY			
SEMICONDUCTORS			
	IC903		AN7470P
	IC902		LA1265S
	IC901		LM7001
	Q914		2SA1048
	Q910		2SC1740S
	Q902		2SC1740SLN
	Q911–Q913		2SC2458
	Q909		2SC2668
	Q901		2SK246
	Q903, Q904, Q908		RN1203
	Q905–Q907		RN2203
	D903, D904		1SS85
	D901		1SV156
	D902, D905–D912		HSS104–02
COILS			
	L907		ATE–079
	L904		LAU010M
	L901, L903, L905, L908		LAU2R2M
	F905		ATF–107
	F903		ATF–119
	F904		ATF1042
	F906		ATF1088

Mark	No.	Description	Parts No.
CAPACITORS			
	C948	(470p/50V)	ACE1039
	C912, C914		CCDCH150J50
	C968		CCDSL101J50
	C939		CCDSL271J50
	C927		CCDSL470J50
	C945		CEANP2R2M50
	C938		CEAS010M50
	C944, C954, C960		CEAS0R1M50
	C949		CEAS1R5M50
	C942, C957, C958, C963		CEAS2R2M50
	C901, C926, C930		CEAS330M16
	C950		CEAS3R3M50
	C924, C928, C943, C951		CEAS470M10
	C946		CEAS470M25
	C936		CEAS4R7M50
	C955		CEASR22M50
	C905		CFTXA103J50
	C906		CFTXA224J50
	C952, C953, C956		CKDYB122K50
	C940		CKDYB222K50
	C961, C962		CKDYB272K50
	C902		CKDYF102Z50
	C913, C915, C919, C922, C932–C935, C937		CKDYF223Z50
	C941, C947		CKDYF473Z50
	C903, C910, C964		CKPUYB101K50
	C904, C907, C965		CKPUYB102K50
	C911, C916, C925, C929		CKPUYF103Z25
	C923, C931, C959		CKPUYF223Z25
RESISTORS			
	VR903	(4.7k)	ACP1042
	VR901	(10k)	ACP1043
	VR902	(22k)	ACP1044
		Other Resistors	RD1/8PM□□□J

OTHERS

Mark	No.	Description	Parts No.
	X901	(7.200MHz)	ASS1042
	X902		ATF1027
		4P ANTENNA TERMINAL WITH PAL	AKA1010
		AM RF TUNING BLOCK	AXX1012
		AM RF TUNING BLOCK	AXX1013
		2 SERIAL F. E. MODULE ASSEMBLY	AXQ1002

Note : 2 serial F. E. module assembly has no service part.

AF ASSEMBLY

SEMICONDUCTORS

	IC1008		ICP−N38
	IC2101		MC14052BCP
	IC2102, IC2301		NJM4558DXP
	Q1006, Q1254, Q1257		2SA1048
	Q1002		2SA1515
	Q1256, Q1260		2SC1845
	Q1001, Q1007, Q1251−Q1253, Q2104		2SC2458
	Q1004		2SC2603
	Q1003		2SD438
	Q1005, Q1008, Q1058, Q1259		XDA143ES
	Q1255		XDC143ES
	D1012, D1014, D1251, D1252, D1254−D1258, D2101, D2102		1SS252
	D1253		HZ16EB
	D1249		RBV402
	D1009−D1011		RD10ESB
	D1013, D1015		RD5.1ESB
	D1016		RD7.5ESB
	D1001−D1004, D1007, D1008		S5566

SWITCHE & RELAIES

	S1201		ASH1009
	RY1251, RY1252		ASR1035

COILS

	L1201, L1202		ATH−133

CAPACITORS

	C1012, C1245	(0.01/150V)	ACG1005
	C1241, C1242	(2200/42V)	ACH1109
	C2103−C2106		CCCSL101J50
	C1252		CEAS100M50
	C1020		CEAS221M10
	C1001, C1002		CEAS222M25
	C2111, C2112, C2305, C2306, C2313, C2314		CEAS2R2M50
	C2315		CEAS470M10
	C2316		CEAS470M10
	C1005		CEAS470M100
	C1011		CEAS470M16
	C1004		CEAS471M50
	C1254		CEASR68M50
	C1015, C1019		CEHAQ100M50
	C1010		CEHAQ101M10
	C1006		CEHAQ101M50
	C1251		CEHAQ221M10
	C2309, C2310		CKCYB152K50
	C2311, C2312		CKCYB562K50
	C1217, C1219, C1220		CKCYX104M25
	C1218		CKDYX104M25
	C2137		CKPUYF103Z25
	C2103, C2104		CCCSL101J50

RESISTORS

	R1219, R1220		RD1/4PM100J
	R1009		RD1/4PM102J
	R1011		RD1/4PM332J
	R1221, R1222		RFA1/4PL100J
	R1003		RS2LMF181J
	R1004−R1006		RS2LMF221J
	R1001, R1002, R1017		RS2LMF472J
	R1298, R1299		RS2LMFR22J
		Other Resistors	RD1/8PM□□□J

OTHERS

	CN1	21P SOCKET	AKP1084
	CN2	27P SOCKET	AKP1099
	CN7	17P SOCKET	AKP1101
		2P PIN JACK	AKB1100
		4P SPEAKER TERMINAL	AKE−109

TRANS ASSEMBLY

SEMICONDUCTORS

	IC1004, IC1005		ICP−N38

AC SUPPLY ASSEMBLY

CAPACITORS

	C1101	(0.01/400V)	ACG1002

OTHERS

	CN1101	1P AC INLET	AKP1121

DISPLAY ASSEMBLY

SEMICONDUCTORS

	IC3501, IC3701−IC3703		NJM4558M−D
	IC1901		PDG106B
	IC1701		SN74LS03N
	IC5204		UPC4570G2

Mark	No.	Description	Parts No.
	Q1901, Q1904		2SC2458
	Q5203, Q5204		2SC2878
	Q3501		2SK246
	Q5202		XDA143ES
	Q1706, Q1707		XDC124ES
	Q1702, Q1708−Q1710, Q1902		XDC143ES
	D3711−D3713		1SS184
	D1710, D1801, D1802, D1806−D1814, D1903−D1905, D3501, D3701−D3705		1SS252
	D1701−D1705		AEL1118
	D1706		AEL1149
	D1901		RD5.6ESB
	D1902		RD6.2ESB

SWITCHES

Mark	No.	Description	Parts No.
	S1801−S1806, S1808−S1823, S1825		ASG1034

COIL

Mark	No.	Description	Parts No.
	L1901		LAU220K

CAPACITORS

Mark	No.	Description	Parts No.
	C1913		ACH1135
	C5223, C5224		CCSQCH390J50
	C3520		CEANP4R7M50
	C1917		CEAS010M50
	C1902, C3507, C3508		CEAS100M50
	C3511, C3512		CEAS470M25
	C1915		CEAS471M10
	C1916		CEJA010M50
	C1912		CEJA470M16
	C1901		CKCYX104M25
	C3503, C3504		CKCYX823M25
	C1918, C1920		CKSQYB102K50
	C3704, C3709		CKSQYB152K50
	C3501, C3502, C3702, C3707		CKSQYB153K50
	C3505, C3506, C3705, C3710		CKSQYB471K50
	C3703, C3708		CKSQYB472K50
	C3509		CKSQYB681K50
	C1940		CKSQYF103Z50
	C1903−C1906, C1911, C1914, C1919, C3701, C3706, C3711−C3715		CKSQYF473Z50

RESISTORS

Mark	No.	Description	Parts No.
	VR3501	(100k−C × 2)	ACS1088
	R3521, R3522		RD1/4PM820J
	R5231, R5232		RS1/10S101J
	R1962, R5223, R5224		RS1/10S102J
	R1904, R1905, R1921, R1922, R1925−R1929, R1951, R1953, R3710−R3714, R3730−R3734		RS1/10S103J
	R1954, R3519		RS1/10S105J
	R3515, R3516		RS1/10S122J
	R3705−R3709		RS1/10S123J
	R3704		RS1/10S124J
	R3503, R3504		RS1/10S154J
	R1906, R1907, R1912, R1913, R1917−R1920, R1941−R1944, R3725−R3729		RS1/10S222J
	R3501, R3502		RS1/10S223J
	R3715−R3719		RS1/10S224J
	R3505, R3506		RS1/10S243J
	R3513, R3514		RS1/10S333J
	R3507, R3508, R5219, R5220		RS1/10S392J
	R5217, R5218		RS1/10S433J
	R3720−R3724		RS1/10S472J
	R1902, R1903, R1910, R1911, R1952, R1955−R1961		RS1/10S473J
	R3511, R3512		RS1/10S474J
	R1914, R1915, R1937−R1940, R3703		RS1/10S561J
	R5221, R5222		RS1/10S562J
	R1946−R1949		RS1/10S563J
	R3509, R3510		RS1/10S683J
	R3517		RS1/10S822J
	R3518		RS1/10S823J
		Other Resistors	RD1/8PM□□□J

OTHERS

Mark	No.	Description	Parts No.
	X1902	(8.00MHz)	ASS1015
	CN1	21P SOCKET	AKP1084
	CN2	27P SOCKET	AKP1099
	V1701	FL TUBE	AAV1165
		REMOTE CONTROL SENSOR UNIT	AXX1023

DELAY & AF ASSEMBLY

SEMICONDUCTORS

Mark	No.	Description	Parts No.
	IC3101, IC3102		BA3812L
	IC3103		LC7522
	IC1201		STK4142−2GP
	IC1501		TA8409S
	IC1502		UPC4570G2
	Q1501, Q1502		2SC1740SLN

CAPACITORS

Mark	No.	Description	Parts No.
	C3121, C3122, C3139, C3140		CCSQCH101J50
	C3123, C3124		CCSQCH121J50
	C3113, C3114		CCSQCH391J50
	C1209		CEANP220M35
	C1213		CEANP470M50
	C1202, C1210−C1212, C1509		CEAS100M50
	C1207, C1208, C1519		CEAS101M25
	C1205		CEAS220M50
	C1510		CEAS221M25
	C1501, C1502, C3133−C3136		CEAS2R2M50
	C3127−C3130		CEAS470M25

Mark	No.	Description	Parts No.
	C1503, C1504, C3125, C3126, C3131, C3132		CEAS4R7M50
	C3109, C3110		CEASR15M50
	C1517, C1518		CEASR22M50
	C1505, C1506		CEASR47M50
	C3117, C3118		CEASR68M50
	C1201		CEHAQ100M50
	C1206		CEHAQ220M50
	C1203, C1204		CKCYB331K50
	C1507, C1508		CKSQYB122K50
	C3107, C3108		CKSQYB153K50
	C3101, C3102		CKSQYB182K50
	C3111, C3112		CKSQYB183K50
	C3103, C3104		CKSQYB392K50
	C3119, C3120		CKSQYB393K50
	C3115, C3116		CKSQYB682K50
	C1512, C3137, C3138		CKSQYF473Z50
	C3105, C3106		CKSQYF683Z50

RESISTORS

Mark	No.	Description	Parts No.
	VR1501	(100k−4B*2 50k−6B)	ACX1080
	R3117, R3118		RA8T105J
	R1203−R1206		RD1/4PM104J
	R1523, R1524		RD1/4PM121J
	R1209−R1212		RD1/4PM222J
	R1207, R1208		RD1/4PM821J
	R1215		RD1/4PMF102J
	R1216, R1217		RD1/4PMF222J
	R1214, R1218		RD1/4PMFL101J
	R1213		RD1/4PMFL471J
	R1507, R1508		RS1/10S000J
	R3115, R3116		RS1/10S102J
	R3101−R3106, R3111, R3112		RS1/10S103J
	R1509, R1510		RS1/10S112J
	R1514		RS1/10S122J
	R1505, R1506		RS1/10S162J
	R1501, R1502		RS1/10S224J
	R1513		RS1/10S272J
	R1517, R1518		RS1/10S473J
	R1519, R1520		RS1/10S562J
	R1503, R1504		RS1/10S622J
	R3107, R3108		RS1/10S682J
	R3113, R3114		RS1/10S823J
	Other Resistors		RD1/8PM□□□J

HEADPHONE ASSEMBLY

RESISTORS

Mark	No.	Description	Parts No.
	R1241, R1242		RS1LMF331J

OTHERS

Mark	No.	Description	Parts No.
	CN1241	MINI JACK (HEADPHONE)	AKN1028
	CN6	6P JUMPER CONNECTOR	KPC6

REGULATER ASSEMBLY

SEMICONDUCTORS

Mark	No.	Description	Parts No.
	IC1001, IC1010		NJM7812FAS
	IC1003		NJM78M56FAS
	IC1002		NJM7912FA

CAPACITORS

Mark	No.	Description	Parts No.
	C1016−C1018		CEHAQ100M50
	C1007−C1009		CEHAQ470M25

6. ADJUSTMENTS

6.1 ADJUSTMENT OF THE FM TUNER SECTION

- Set the mode selector to FM BAND.
- Connect the wiring as shown in Fig. 6−1.

Step No.	Adjustment title	FM SG (1kHz, ±75kHz dev.)		Reception frequency display	Adjustment location	Specifications
		Frequency (MHz)	Level (dBμV)			
1	Center adjustment	98	80	98.0MHz	L907	Adjust so that the DC voltage between the TP901 (Vref) and TP902 (T-meter) becomes 0V±50mV.
2	VCO adjustment	Non modulation	80	98.0MHz	VR903	Adjust so that the output of the TP905 (VCO) becomes 76kHz±0.5kHz.
3	TUNED IND. Lighting level	98 *1 (Stereo modulation)	18 (±3dB)	98.0MHz	VR902	Adjust so that the indicators of TUNED, STEREO IND. start to light up.

Note :
Perform steps 1 and 3 when 2 serial F. E. module assembly is replaced.
Confirm VCO (step 2) and adjust if improper.

*1. Stereo modulation : Main 1kHz L+R, ±68.25kHz dev.
Pilot 19kHz, ±6.75kHz dev.

6.2 ADJUSTMENT OF AM (MW) TUNER SECTION

- Set the mode selector to AM (MW) BAND.
- Connect the wiring as shown in Fig. 6−2.

Step No.	Adjustment title	AM SG (400Hz, 30% Mod.)		Reception frequency display	Adjustment location	Specifications
		Frequency (kHz)	Level (dBμV/m)			
1	Tracking adjustment *1	603 *3	Feeble input	603kHz *3	AM RF Tuning block antenna coil	Adjust so that the DC voltage between the TP904 (S-meter) and GND becomes at maximum level.
		1395 *4		1395kHz *4	TC901	
2	IFT adjustment *1	603 *3		603kHz *3	F904	
3	TUNED IND. Lighting level	999 *2	55 (±5dB)	999kHz *2	VR901	Adjust so that the indicators of TUNED IND. start to light up.

Note 1 :
*Adjustment marked with " *1 " is only for HEWZI.*

Note 2 :
Frequencies indicated in the above table are for the area using 9kHz step (HE, HB, HEWZI, SD, SL, YPW : 9k step).
For the area using 10kHz step (SD, SL : 10kHz), frequencies should be as follows :

**2 : 1000kHz*
**3 : 600kHz*
**4 : 1400kHz*

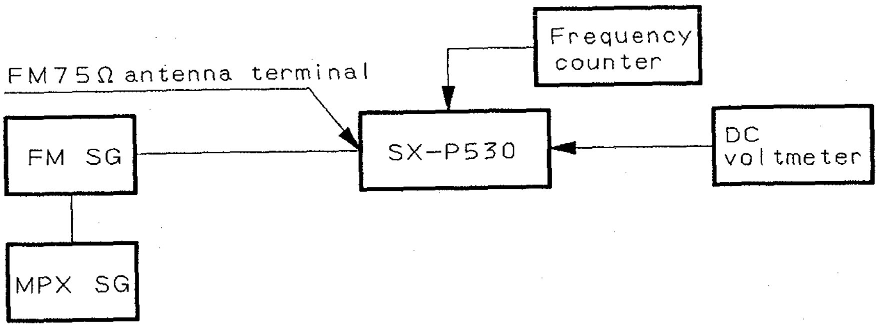

Frequency counter
FM75Ω antenna terminal
FM SG
SX-P530
DC voltmeter
MPX SG

Fig. 6-1 FM Adjustment Connection Diagram

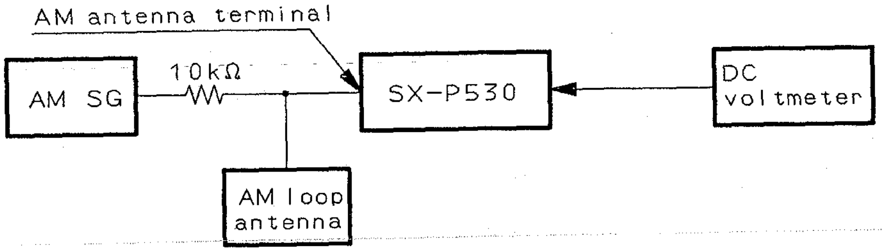

AM antenna terminal
10kΩ
AM SG
SX-P530
DC voltmeter
AM loop antenna

Fig. 6-2 AM (MW) Adjustment Connection Diagram

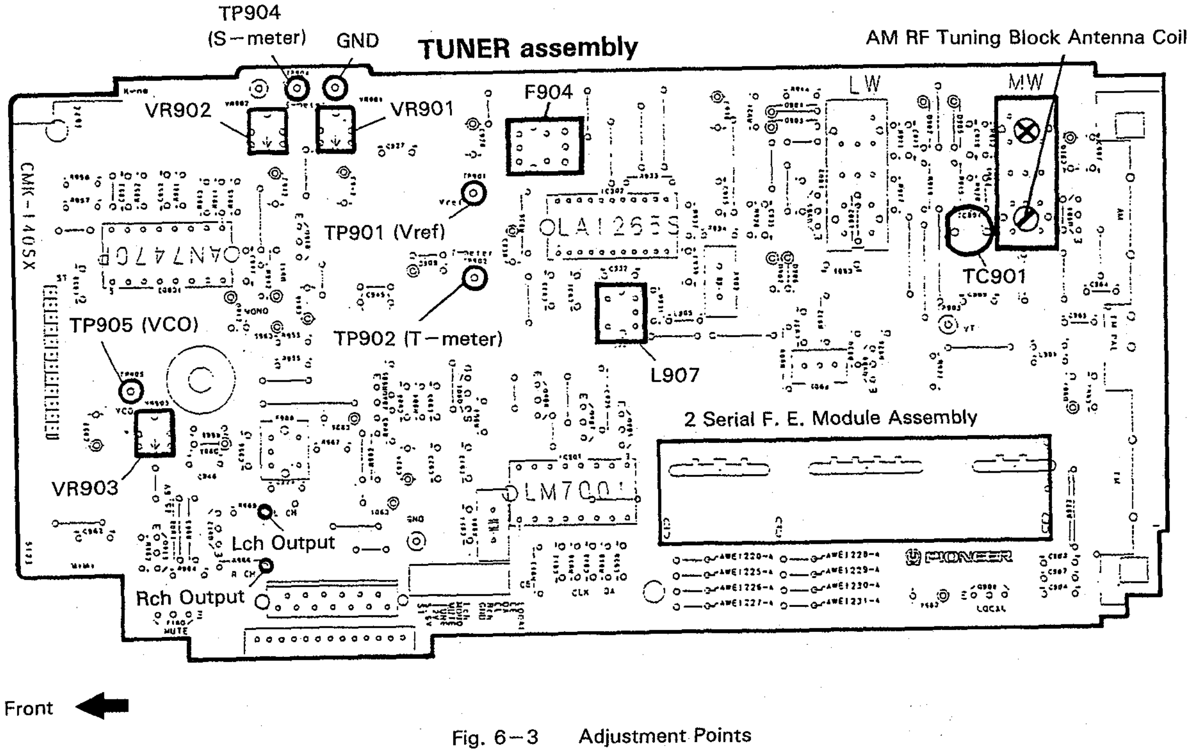

TP904
(S-meter)
GND
TUNER assembly
AM RF Tuning Block Antenna Coil
VR902
VR901
F904
LW
MW
CMK-140SX
TP901 (Vref)
TC901
TP905 (VCO)
TP902 (T-meter)
L907
2 Serial F. E. Module Assembly
VR903
Lch Output
Rch Output
PIONEER
Front

Fig. 6-3 Adjustment Points

7. IC INFORMATION

- *The information shown in the list is basic information and may not correspond exactly to that shown in the schematic diagrams.*

PDG106B (IC1901 : DISPLAY ASSEMBLY)

- **System Control Micro-computer**
- Pin Function

<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th>Function Name</th><th>Description</th></tr>
<tr><td>1</td><td>PE3/INT3</td><td>I</td><td>$\overline{\text{STEREO}}$</td><td>Distinguishes the condition of the tuner reception. "L": STEREO RECEPTION</td></tr>
<tr><td>2</td><td>PE4/RMC</td><td>I</td><td>REMO−CON</td><td>Remote control signal input</td></tr>
<tr><td>3</td><td>PE5</td><td>I</td><td>$\overline{\text{TUNE}}$</td><td>Distinguishes the tuning of the tuner. "L": TUNED</td></tr>
<tr><td>4</td><td>PE6</td><td>O</td><td>FM MONO</td><td>Switching Tuner AUTO/MONO . "H": MONO</td></tr>
<tr><td>5</td><td>PE7/TO</td><td>O</td><td>MUTE</td><td>LINE MUTE control "H" : MUTE ON
When switching FUNCTION, switching SFC MODE, switching STEREO WIDE, switching DELAY MODE, switching TUNER BAND, In the above cases 500 msec.
When switching the tuner frequency UP/DOWN or the station UP/DOWN, the movement continues until stopping.</td></tr>
<tr><td>6</td><td>PB0/CINT</td><td>O</td><td>VOL UP</td><td rowspan="2">Motor driver IC (TA8409S) control output
<table>
<tr><th></th><th>PB0</th><th>PB1</th></tr>
<tr><td>VOL UP</td><td>H</td><td>L</td></tr>
<tr><td>VOL DOWN</td><td>L</td><td>H</td></tr>
<tr><td>STOP</td><td>L</td><td>L</td></tr>
</table></td></tr>
<tr><td>7</td><td>PB1/$\overline{\text{CS0}}$</td><td>O</td><td>VOL DOWN</td></tr>
<tr><td>8</td><td>PB2/$\overline{\text{SCK0}}$</td><td>I</td><td>DISP CLK</td><td>CLOCK input for CD display data communication.</td></tr>
<tr><td>9</td><td>PB3/$\overline{\text{SI0}}$</td><td>I</td><td>DISP DATA</td><td>DATA input for CD display data communication.</td></tr>
<tr><td>10</td><td>PB4/$\overline{\text{SO0}}$</td><td>O</td><td>TIME CALL</td><td>TIME CALL LED control output. "H" : LED ON</td></tr>
<tr><td>11</td><td>PB5/$\overline{\text{SCK1}}$</td><td>O</td><td>VOICE ASSIST</td><td>Not used (VOICE ASSIST LED control output. "H" : LED ON)</td></tr>
<tr><td>12</td><td>PB6/$\overline{\text{SI1}}$</td><td>O</td><td>DELAY MUTE</td><td>Not used</td></tr>
<tr><td>13</td><td>PB7/$\overline{\text{SO1}}$</td><td>O</td><td>PLL CE</td><td>TUNER PLL IC LM7001 chip/enable output. "H": ACTIVE</td></tr>
<tr><td>14</td><td>PC0/KR0</td><td>O</td><td>PLL/66320 CLK</td><td>TUNER PLL IC (LM7001) and serial data and parallel data modifier IC (M66320) control CLOCK output.</td></tr>
<tr><td>15</td><td>PC1/KR1</td><td>O</td><td>PLL/66320 DATA</td><td>TUNER PLL IC (LM7001) and serial data and parallel data modifier IC (M66320) control DATA output.</td></tr>
<tr><td>16</td><td>PC2/KP2</td><td>O</td><td>POWER</td><td>POWER ON/OFF control "H" : POWER ON</td></tr>
<tr><td>17</td><td>PC3/KR3</td><td>O</td><td>$\overline{\text{SP. RELAY}}$</td><td>Protection relay control. "L": RELAY ON
(Approx 5 sec after POWER ON. POWER OFF : "H")</td></tr>
<tr><td>18</td><td>PC4/KR4</td><td>I</td><td>KEY IN 0</td><td rowspan="3">Key scan, Key return signal input</td></tr>
<tr><td>19</td><td>PC5/KR5</td><td>I</td><td>KEY IN 1</td></tr>
<tr><td>20</td><td>PC6/KR6</td><td>I</td><td>KEY IN 2</td></tr>
</table>

<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th>Function Name</th><th>Description</th></tr>
<tr><td>21</td><td>PC7/KR7</td><td>O</td><td>1/f AUTO SOUND TUNE−UP</td><td>LED control
“H” LED ON SOUND TUNE−UP (NATURAL MODE)</td></tr>
<tr><td>22</td><td>DA0/AN0</td><td>I</td><td>BPF IN 1</td><td>Band Pass Filter A/D input (100 Hz) for Spectrum analyzer.</td></tr>
<tr><td>23</td><td>DA1/AN1</td><td>I</td><td>BPF IN 2</td><td>Band Pass Filter A/D input (330 Hz) for Spectrum analyzer. “H”: LED ON</td></tr>
<tr><td>24</td><td>PA2/AN2</td><td>I</td><td>BPF IN 3</td><td>Band Pass Filter A/D input (1kHz) for Spectrum analyzer.</td></tr>
<tr><td>25</td><td>PA3/AN3</td><td>I</td><td>BPF IN 4</td><td>Band Pass Filter A/D input (3.3kHz) for Spectrum analyzer.</td></tr>
<tr><td>26</td><td>PA4/AN4</td><td>I</td><td>BPF IN 5</td><td>Band Pass Filter A/D input (10kHz) for Spectrum analyzer.</td></tr>
<tr><td>27</td><td>PA5/AN5</td><td>O</td><td>DELAY 1</td><td>Switching digital delay time switch 1.</td></tr>
<tr><td rowspan="2">28</td><td rowspan="2">PA6/AN6</td><td>I</td><td>VOL. POSITION</td><td>A/D for VOLUME position detect.</td></tr>
<tr><td>O</td><td>DELAY 2</td><td>Switching digital delay time switch 2.</td></tr>
<tr><td rowspan="2">29</td><td rowspan="2">PA7/AN7</td><td>O</td><td>66320STB</td><td>Serial data and parallel data modifier IC (M66320) strobe output.</td></tr>
<tr><td>O</td><td>DELAY 3</td><td>Switching digital delay time switch 3.</td></tr>
<tr><td>30</td><td>$\overline{\text{RST}}$</td><td>−</td><td>RESET</td><td>Micro-computer reset input</td></tr>
<tr><td>31</td><td>EXTAL</td><td>−</td><td>−</td><td rowspan="2">Connected to ceramic oscillator (8MHz)</td></tr>
<tr><td>32</td><td>XTAL</td><td>−</td><td>−</td></tr>
<tr><td>33</td><td>VSS</td><td>−</td><td>−</td><td>Reference Voltage (DIGTAL GND)</td></tr>
<tr><td>34</td><td>PD0/S0</td><td>O</td><td>FUNC A</td><td rowspan="2">Function switching analogue switch MC14052 control output.</td></tr>
<tr><td>35</td><td>PD1/S1</td><td>O</td><td>FUNC B</td></tr>
<tr><td>36</td><td>PD2/S2</td><td>O</td><td>FUNC INH</td><td>Function switching analogue switch MC14052 control output.
When switching function and/or transmitting to PLL, for a period of 500 msec, PD2 : “H”.
When switching the tuner frequency UP/DOWN, PD2 is continuously “H”.
When function is switched to TAPE or during TAPE PLAY, at any other time than this, PD2 remains “H”.
<table>
<tr><th></th><th>PD0</th><th>PD1</th></tr>
<tr><td>PHONO
(VIDEO)
(DAT/VIDEO)</td><td>H</td><td>L</td></tr>
<tr><td>TUNER</td><td>L</td><td>L</td></tr>
<tr><td>CD</td><td>H</td><td>H</td></tr>
<tr><td>TAPE</td><td>L</td><td>H</td></tr>
</table></td></tr>
<tr><td>37</td><td>PD3/S3</td><td>O</td><td>GEQ CLK</td><td>Electronic VR IC (LC7522) CLOCK output for GEQ.</td></tr>
<tr><td>38</td><td>PD4/S4</td><td>O</td><td>GEQ DATA</td><td>Electronic VR IC (LC7522) DATA output for GEQ.</td></tr>
<tr><td>39</td><td>PD5/S5</td><td>O</td><td>WIDE A</td><td>Switching STEREO WIDE A “H” : ON</td></tr>
<tr><td>40</td><td>PD6/S6</td><td>O</td><td>DELAY MODE 1</td><td rowspan="2">Not used (Switching digital delay mode 1/2.)
<table>
<tr><th></th><th>PD6</th><th>PD7</th></tr>
<tr><td>Test Mode</td><td>L</td><td>L</td></tr>
<tr><td>Surround Mode (DISCO)</td><td>L</td><td>H</td></tr>
<tr><td>Reverbe Mode (HALL)</td><td>H</td><td>L</td></tr>
<tr><td>Echo Mode (MOVIE)</td><td>H</td><td>H</td></tr>
</table></td></tr>
<tr><td>41</td><td>PD7/S7</td><td>O</td><td>DELAY MODE 2</td></tr>
</table>

Pin No.	Pin Name	I/O	Function Name	Description
42	PF0/S8	O	AUDITION	Switching audition/vocal channel ON/OFF. "H" : Audition ON
43	PF1/S9	O	S1/KO11	FL control segment output/key scan strobe output
44	PF2/S10	O	S2/KO10	
45	PF3/S11	O	S3/KO9	
46	PF4/S12	O	S4/KO8	FL control segment output/key scan strobe output
47	PF5/S13	O	S5/KO7	
48	PF6/S14	O	S6/KO6	
49	PF7/S15	O	S7/KO5	
50	S16	O	S8/KO4	
51	S17	O	S9/KO3	
52	S18	O	S10	
53	S19	O	S11/KO1	
54	S20	O	S12/KO0	
55	T15/S21	O	S13	FL control segment output
56	T14/S22	O	S14	
57	T13/S23	O	S15	
58	T12/S24	O	S16	
59	T11/S25	O	S17	
60	T10/S26	O	S18	
61	T9/S27	O	10G	FL control timing output
62	T8/S28	O	9G	
63	T7	O	8G	
64	T6	O	7G	
65	T5	O	6G	
66	T4	O	5G	
67	T3	O	4G	
68	T2	O	3G	
69	T1	O	2G	
70	T0	O	1G	
71	VFDP	–	VFDP	Offset voltage (−30V) for FL control.
72	VDD	–	VDD	Power supply (+5V)

Pin No.	Pin Name	I/O	Function Name	Description
73	NC/VPP	–	NC	Not used
74	PG0	O	SCLK	CLOCK output for system bus communication
75	PG1	I/O	S DATA	DATA input/output for system bus communication.
76	PG2	I/O	REQ/EN CD	Communication request/permit input/output (CD) for system bus communication.
77	PG3	I/O	REQ/EN DECK	Communication request/permit input/output (DECK) for system bus communication.
78	PE0/$\overline{\text{EC0}}$/INT0	I	50/60Hz IN	AC clock input for AC synchronized clock.
79	PE1/$\overline{\text{EC1}}$/INT1	I	VOICE BUSY	Sound composite IC. “L” : VOCALIZING
80	PE2/INT2	I	DISP CLK	CLOCK input for CD display data communication.

8. FOR HB, SD, SL AND YPW TYPES

NOTES :

- *Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560Ω → 56 × 10^1 → 561 .... RD1/8PM $\boxed{5}\boxed{6}\boxed{1}$ J
47kΩ → 47 × 10^3 → 473 .... RD1/4PS $\boxed{4}\boxed{7}\boxed{3}$ J
0.5Ω → 0R5 .... RN2H $\boxed{0}\boxed{R}\boxed{5}$ K
1Ω → 010 .... RS1P $\boxed{0}\boxed{1}\boxed{0}$ K

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).
5.62kΩ → 562 × 10^1 → 5621 .... RM1/4PC $\boxed{5}\boxed{6}\boxed{2}\boxed{1}$ F

8.1 CONTRAST OF MISCELLANEOUS PARTS

SX−P530/HB, SD, SL, YPW and SX−P530/HE have the same construction except for the following :

Mark	Symbol & Description	Part No.					Remarks
		HE type	HB type	SD type	SL type	YPW type	
	TUNER assembly	AWE1226	AWE1261	AWE1227	AWE1227	AWE1227	
	AF assembly	AWZ4694	AWZ4694	AWZ4698	AWZ4698	AWZ4739	
	AC SUPPLY assembly	AWZ4701	AWZ4702	AWZ4741	AWZ4741	AWZ4742	
	DISPLAY assembly	AWZ4704	AWZ4705	AWZ4708	AWZ4708	AWZ4708	
	DELAY & AF assembly	AWZ4711	AWZ4711	AWZ4715	AWZ4715	AWZ4715	
	MIC assembly	....	....	AWZ4744	AWZ4744	AWZ4744	∗1, ∗2
⚠	S Voltage selector (AC110V/120−127V/220V/240V for SD) (AC110V/120V/220V/240V for SL)	....	....	AKX−507	AKX−507	....	∗2
⚠	T Power transformer (AC220−230V/240V)	ATS1476	ATS1476	....	....	....	
⚠	T Power transformer (AC110V/120−127V/220V/240V for SD) (AC110V/120V/220V/240V for SL)	....	....	ATS1478	ATS1478	....	
⚠	T Power transformer (AC220−230V/240V)	....	....	....	....	ATS1477	
	C1 Ceramic capacitor	....	....	CKDYB122K50	....	....	∗2
⚠	FU2 Fuse (T800mA/250V)	....	....	AEK−507	AEK−507	....	∗2
⚠	AC Power cord	ADG1127	ADG1118	ADG1129	ADG1127	ADG1124	
⚠	Strain relief	....	AEC−882	....	....	....	∗2
	Knob (MIC)	....	....	AAB1253	AAB1253	AAB1253	∗2
	Audition button	....	....	AAD2405	AAD2405	AAD2405	Vocal cancel, ∗2
	Sub panel B	AAK2424	AAK2424	AAK2425	AAK2425	AAK2425	
	Front panel	AMB2113	AMB2113	AMB2114	AMB2114	AMB2114	
	Rear panel	ANC2039	ANC2038	ANC2041	ANC2051	ANC2042	

∗1 : Refer to "8.2 PCB PARTS LIST".
∗2 : Refer to pages 3 and 4.

Mark	Symbol & Description	Part No.					Remarks
		HE type	HB type	SD type	SL type	YPW type	
NSP	Dummy jack	....	ANG1736	....	....	....	*2
	Screw	VBZ35P080FMC	VBZ35P080FMC	....	....	....	
	Packing case	AHD2476	AHD2476	AHD2477	AHD2477	AHD2477	
	Operating instructions (English, French, German, Italian)	ARE1268	....	....	....	....	
	Operating instructions (English, French, German, Italian)	ARE1269	....	....	....	....	For PDC-P530/ PDC-P530M
	Operating instructions (Dutch, Swedish, Spanish, Portuguese)	ARC1401	....	....	....	....	
	Operating instructions (Dutch, Swedish, Spanish, Portuguese)	ARC1402	....	....	....	....	For PDC-P530/ PDC-P530M
	Operating instructions (English)	....	ARB1411	ARB1411	ARB1411	ARB1411	
	Operating instructions (English)	....	ARB1412	....	....	....	For PDC-P530/ PDC-P530M
	Operating instructions (English)	....	....	ARB1413	ARB1413	ARB1413	For PDC-P530T/ PDC-P530M
	Operating instructions (Spanish)	....	....	ARC1407	....	....	

TUNER ASSEMBLY

AWE1261, AWE1227 and AWE1226 have the same construction except for the following :

Mark	Symbol & Description	Part No.			Remarks
		AWE1226	AWE1261	AWE1227	
	Q903, Q904	RN1203	....	....	
	Q906	RN2203	....	....	
	D902, D905–D907	HSS104–02	....	....	
	D903, D904	1SS85	....	....	
	L901, L903, L905, L908	LAU2R2M	LAU2R2K	LAU2R2M	
	L904	LAU010M	LAU010K	LAU010M	
	C913	CKDYF223Z50	....	....	
	C961, C962	CKDYB272K50	CKDYB272K50	CKDYB562K50	
	C964	CKPUYB101K50	CKPUYB101K50	....	
	C965	CKPUYB102K50	CKPUYB102K50	....	
	R911	RD1/8PM104J	....	....	
	R914, R915, R919	RD1/8PM681J	....	....	
	R917	RD1/8PM102J	....	....	
	R921	RD1/8PM392J	....	....	
	4P Antenna terminal with PAL	AKA1010	AKA1010	....	
	4P Antenna terminal	....	....	AKA1009	
	AM RF Tuning block	....	AXX1011	AXX1011	
	AM RF Tuning block	AXX1012	....	....	
	AM RF Tuning block	AXX1013	....	....	

AF ASSEMBLY

AWZ4698, AWZ4739 and AWZ4694 have the same construction except for the following :

Mark	Symbol & Description	Part No.			Remarks
		AWZ4694	AWZ4698	AWZ4739	
	IC2103	....	NJM4558DXP	NJM4558DXP	
	IC2301	NJM4558DXP	....	....	
	IC3601 – IC3604	....	NJM4558DXP	NJM4558DXP	
	IC3605	....	MC14066BCP	MC14066BCP	
	Q3601	....	XDA124ES	XDA124ES	
	Q3602	....	XDC143ES	XDC143ES	
	C2103, C2104	CCCSL101J50	....	....	
	C2125, C2126	....	CEAS100M50	CEAS100M50	
	C2305, C2306, C2313, C2314	CEAS2R2M50	....	....	
	C2309, C2310	CKCYB152K50	....	....	
	C2311, C2312	CKCYB562K50	....	....	
	C2315, C2316	CEAS470M10	....	....	
	C3603, C3604	....	CKCYX683M25	CKCYX683M25	
	C3605, C3606	....	CEASR33M50	CEASR33M50	
	C3607, C3608	....	CKCYB272K50	CKCYB272K50	
	C3609 – C3614	....	CKCYB561K50	CKCYB561K50	
	C3615, C3616	....	CEAS4R7M50	CEAS4R7M50	
	C3617 – C3619	....	CKCYX183M25	CKCYX183M25	
	C3620	....	CCCSL101J50	CCCSL101J50	
	R2123 – R2126, R2129, R2130	....	RD1/8PM472J	RD1/8PM472J	
	R2127, R2128	....	RD1/8PM474J	RD1/8PM474J	
	R2131, R2132	....	RD1/8PM101J	RD1/8PM101J	
	R2133, R2134, R3601, R3602	....	RD1/8PM221J	RD1/8PM221J	
	R2305, R2306	RD1/8PM122J	....	....	
	R2307, R2308	RD1/8PM473J	....	....	
	R2309, R2310	RD1/8PM474J	....	....	
	R2311, R2312	RD1/8PM101J	....	....	
	R2313, R2314	RD1/8PM104J	....	....	
	R2315, R2316	RD1/8PM820J	....	....	
	R3603 – R3608	....	RD1/8PM433J	RD1/8PM433J	
	R3609, R3610	....	RD1/8PM333J	RD1/8PM333J	
	R3611, R3612	....	RD1/8PM824J	RD1/8PM824J	
	R3613, R3614, R3633	....	RD1/8PM682J	RD1/8PM682J	
	R3615 – R3620, R3623, R3624, R3627, R3628, R3630, R3632	....	RD1/8PM223J	RD1/8PM223J	
	R3621, R3622	....	RD1/8PM103J	RD1/8PM103J	
	R3625, R3626	....	RD1/8PM104J	RD1/8PM104J	
	R3629	....	RD1/8PM393J	RD1/8PM393J	
	R3631	....	RD1/8PM914J	RD1/8PM914J	
	R3699	....	RD1/8PM473J	RD1/8PM473J	
	CN5	....	KPC4	KPC4	

AC SUPPLY ASSEMBLY

AWZ4702, AWZ4741, AWZ4742 and AWZ4701 have the same construction except for the following :

Mark	Symbol & Description	Part No.				Remarks
		AWZ4701	AWZ4702	AWZ4741	AWZ4742	
	L1101 Line filter	....	....	ATF−151	ATF−151	
	CN1101 1P AC inlet	AKP1121	....	AKP1121	AKP1121	

DISPLAY ASSEMBLY

AWZ4705, AWZ4708 and AWZ4704 have the same construction except for the following :

Mark	Symbol & Description	Part No.			Remarks
		AWZ4704	AWZ4705	AWZ4708	
	Q1705	....	....	XDC143ES	
	D1709	....	....	AEL1008	
	D1802	1SS252	....	....	
	D1803	....	1SS252	....	
	D1804	....	....	1SS252	
	S1824	....	....	ASG1304	Vocal Cancel
	C3503, C3504	CKCYX823M25	CKCYX823M25	CKCYX333M25	
	C5223, C5224	CCSQCH390J50	CCSQCH390J50	CCSQCH101J50	
	R1706	....	....	RD1/8PM151J	
	R1933	....	....	RS1/10S103J	
	R1945	....	....	RS1/10S473J	
	R2508	....	....	RS1/10S104J	
	R3505, R3506	RS1/10S243J	RS1/10S243J	RS1/10S104J	
	R3507, R3508	RS1/10S392J	RS1/10S392J	RS1/10S103J	
	R3509, R3510	RS1/10S683J	RS1/10S683J	RS1/10S104J	
	R5217, R5218	RS1/10S433J	RS1/10S433J	RS1/10S203J	

DELAY & AF ASSEMBLY

AWZ4715 and AWZ4711 have the same construction except for the following :

Mark	Symbol & Description	Part No.		Remarks
		AWZ4711	AWZ4715	
	IC1201	STK4142−2GP	STK4152−2GP	

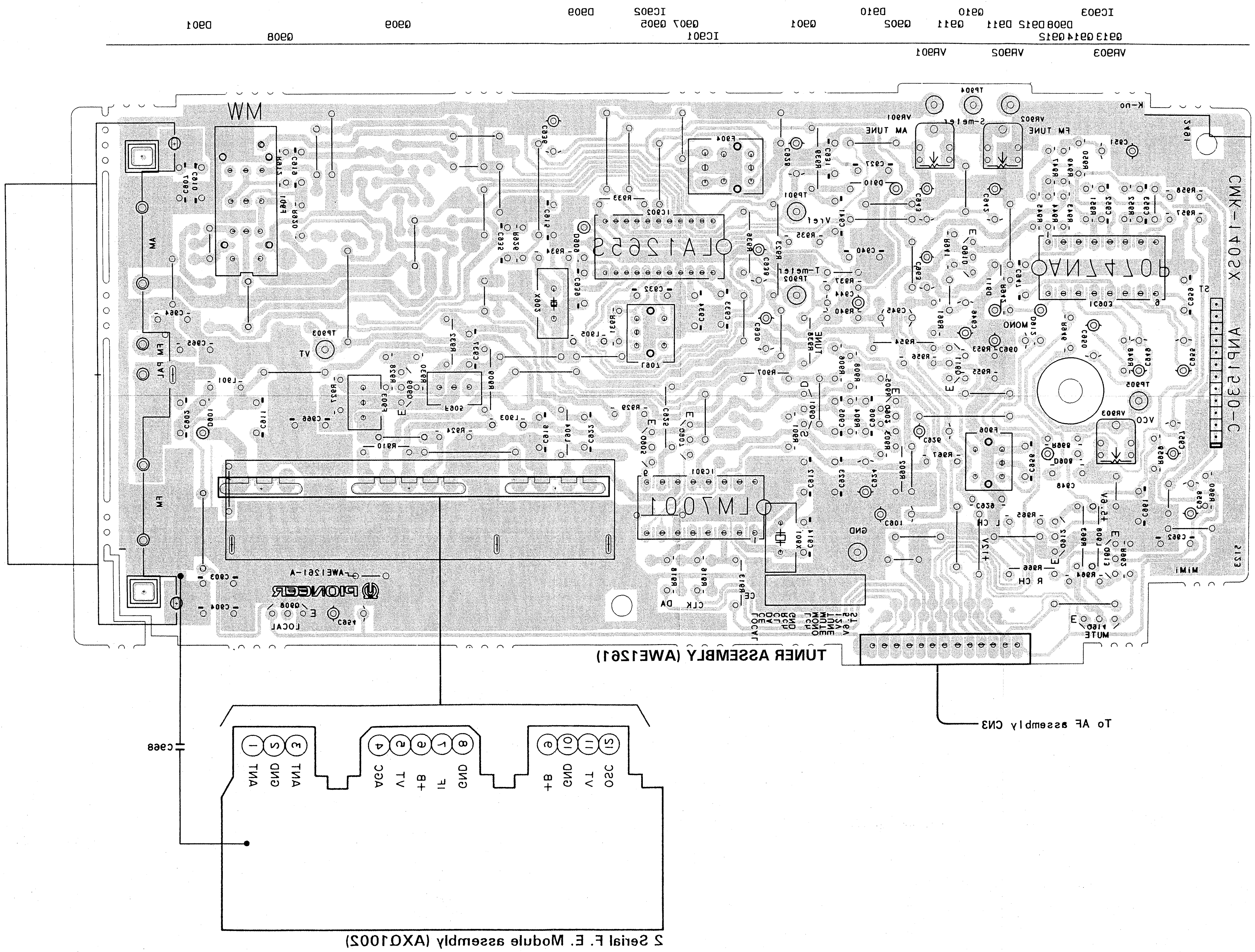
8.2 PCB PARTS LIST

Mark	No.	Description	Parts No.
MIC ASSEMBLY (SD, SL and YPW TYPES)			
SEMICONDUCTORS			
	IC2501		NJM4558M−D
CAPACITORS			
	C2505		CCSQCH331J50
	C2506		CEAS0R1M50
	C2503		CEAS010M50
	C2504		CEAS100M50
	C2502		CKSQYB332K50
	C2507, C2508		CKSQYF473Z50
RESISTORS			
	VR2501	(10k−B)	ACS1074
	R2507		RS1/10S102J
	R2504		RS1/10S103J
	R2503, R2506, R2508		RS1/10S104J
	R2502		RS1/10S222J
	R2505		RS1/10S471J
OTHERS			
		MIC JACK	AKN1009

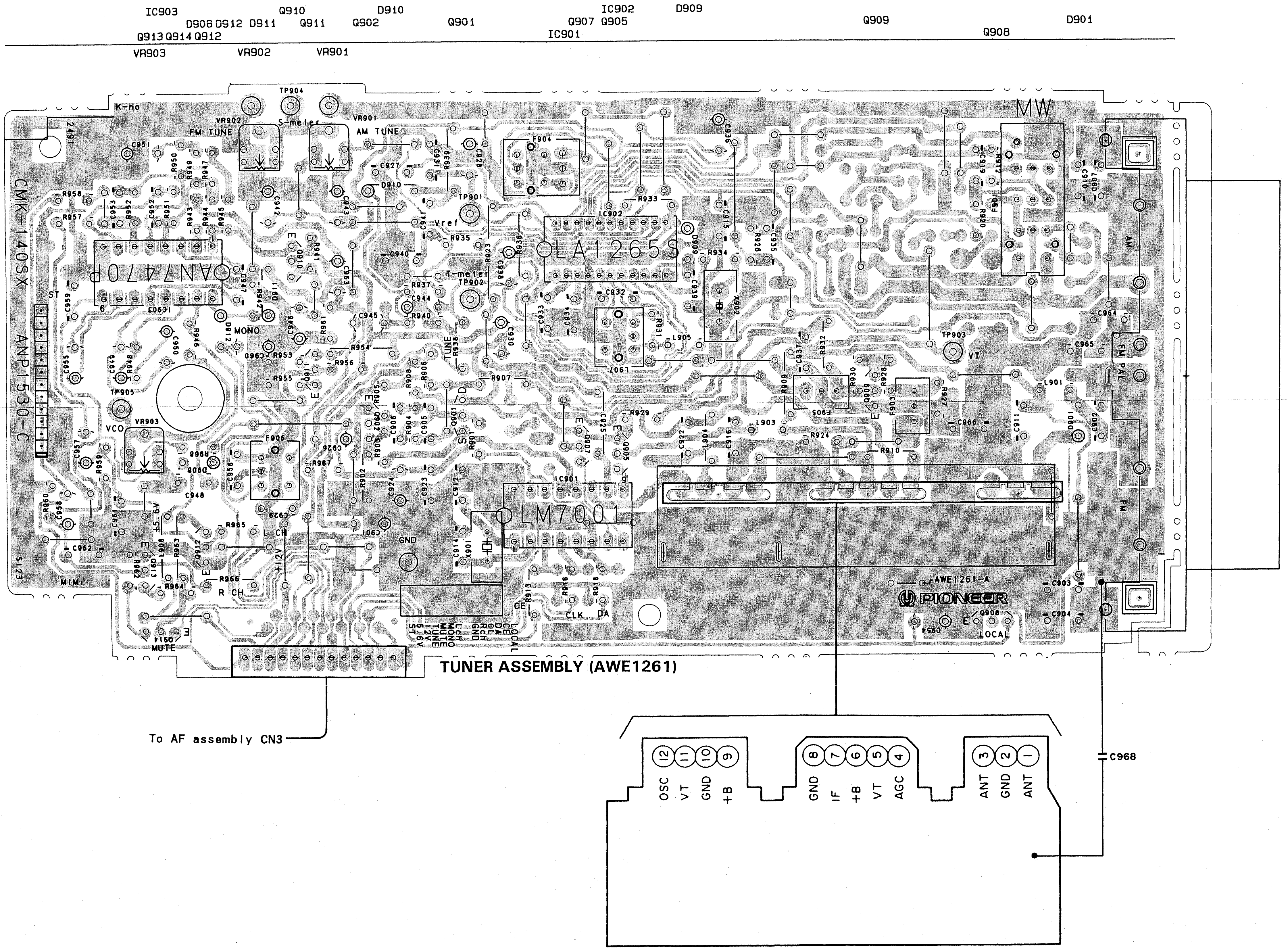
8.3 SCHEMATIC AND PCB DIAGRAMS

8.3.1 Tuner Assembly (For HB Type)

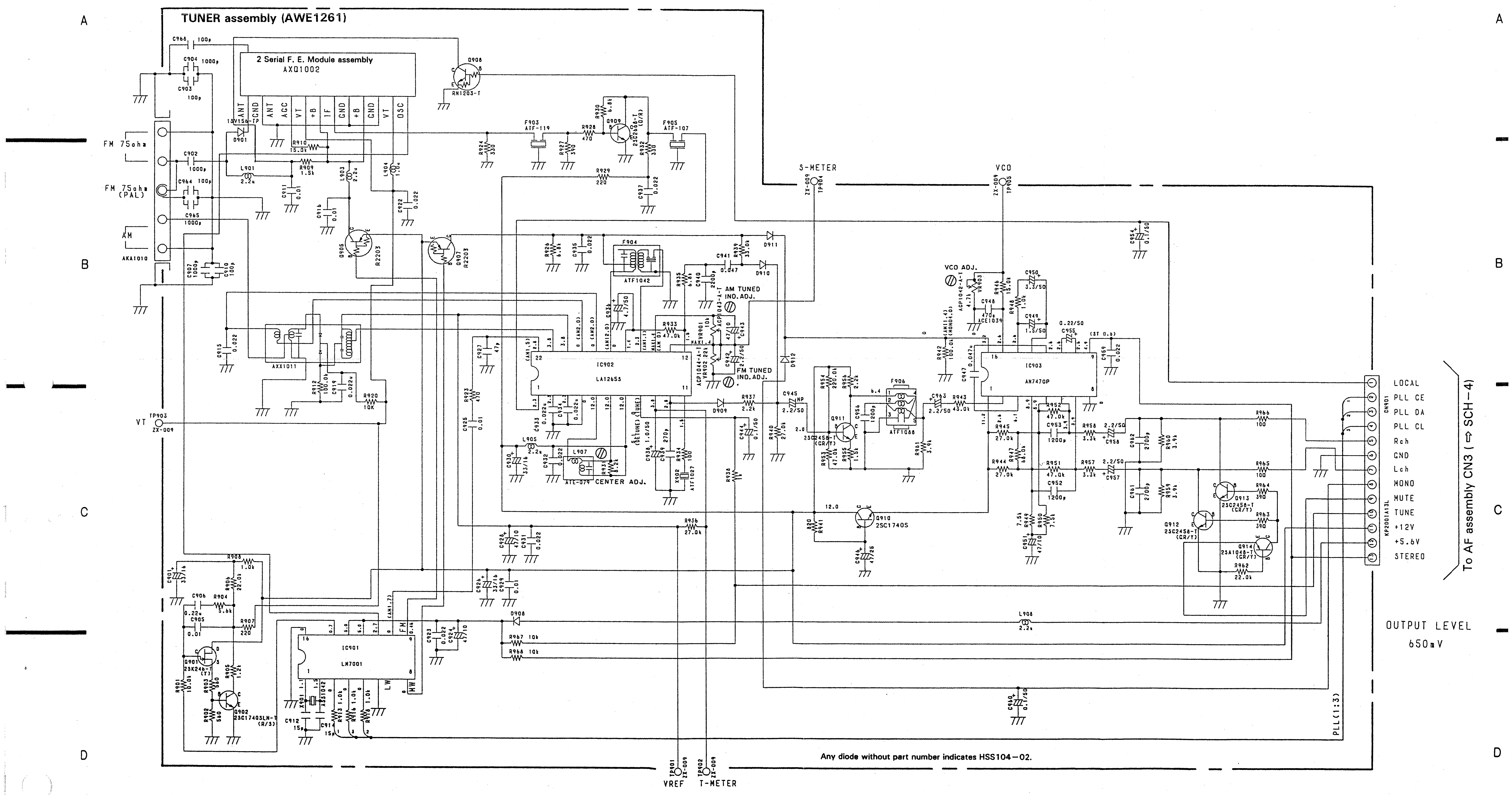
This PCB connection diagram is viwed from the foil side.


TUNER ASSEMBLY (AWE1261)
To AF assembly CN3
2 Serial F. E. Module assembly (AXQ1002)
LA1265S
LM7001
IC901
IC902
IC903
VR901
VR902
VR903
FM TUNE
AM TUNE
S-meter
T-meter
MONO
VCO
GND
MW
FM
ANT
GND
AGC
TV
B+
IF
OSC
C968
PIONEER
AWE1261-A
LOCAL
MUTE
L CH
R CH
CLK
DA
CE

This P. C. B connection diagram is viewed from the parts mounted side.


IC903
D908 D912 D911
Q913 Q914 Q912
VR903
Q910
Q911
VR902
D910
Q902
VR901
Q901
IC902
Q907 Q905
IC901
D909
Q909
Q908
D901
TP904
VR902
FM TUNE
S-meter
VR901
AM TUNE
K-no
CMK-140SX
ANP1530-C
AN7470P
LA1265S
LM7001
MW
AM
FM
FM PAL
ST
MONO
VCO
Vref
T-meter
VT
GND
L CH
R CH
+12V
+5.6V
MUTE
MiMi
CE
CLK
DA
LOCAL
AWE1261-A
PIONEER
TUNER ASSEMBLY (AWE1261)
To AF assembly CN3
C968
12 11 10 9
OSC VT GND +B
8 7 6 5 4
GND IF +B VT AGC
3 2 1
ANT GND ANT

2 Serial F. E. Module assembly (AXQ1002)


A
B
C
D
TUNER assembly (AWE1261)
2 Serial F. E. Module assembly
AXQ1002
ANT
GND
ANT
AGC
VT
+B
IF
GND
+B
GND
VT
OSC
FM 75ohm
FM 75ohm (PAL)
AM
AKA1010
VT
TP903
ZX-009
S-METER
VCO
VCO ADJ.
AM TUNED IND. ADJ.
FM TUNED IND. ADJ.
CENTER ADJ.
IC902
LA1265S
IC903
AN7470P
IC901
LM7001
AXX1011
ATF1042
ATF1066
F904
F906
Q905
Q906
Q907
Q909
Q910
2SC1740S
Q911
Q912
Q913
Q914
Q901
Q902
LOCAL
PLL CE
PLL DA
PLL CL
Rch
GND
Lch
MONO
MUTE
TUNE
+12V
+5.6V
STEREO
CN901
To AF assembly CN3 (⇨ SCH-4)
OUTPUT LEVEL
650mV
PLL(1:3)
Any diode without part number indicates HSS104-02.
TP901
ZX-009
TP902
ZX-009
VREF
T-METER

SCH-7 TUNER ASSEMBLY (For HB type)

TUNER ASSEMBLY (For HB type) **SCH-7**

8.3.2 Tuner Assembly (For SD, SL and YPW Types)

IC901 (LM7001)

Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	1.1	5	0	9	0.46	13	5.0
2	1.5	6	0	10	0 (1.7 when AM)	14	0.7
3	0	7	–	11	2.7	15	–
4	0	8	0	12	5.0	16	0

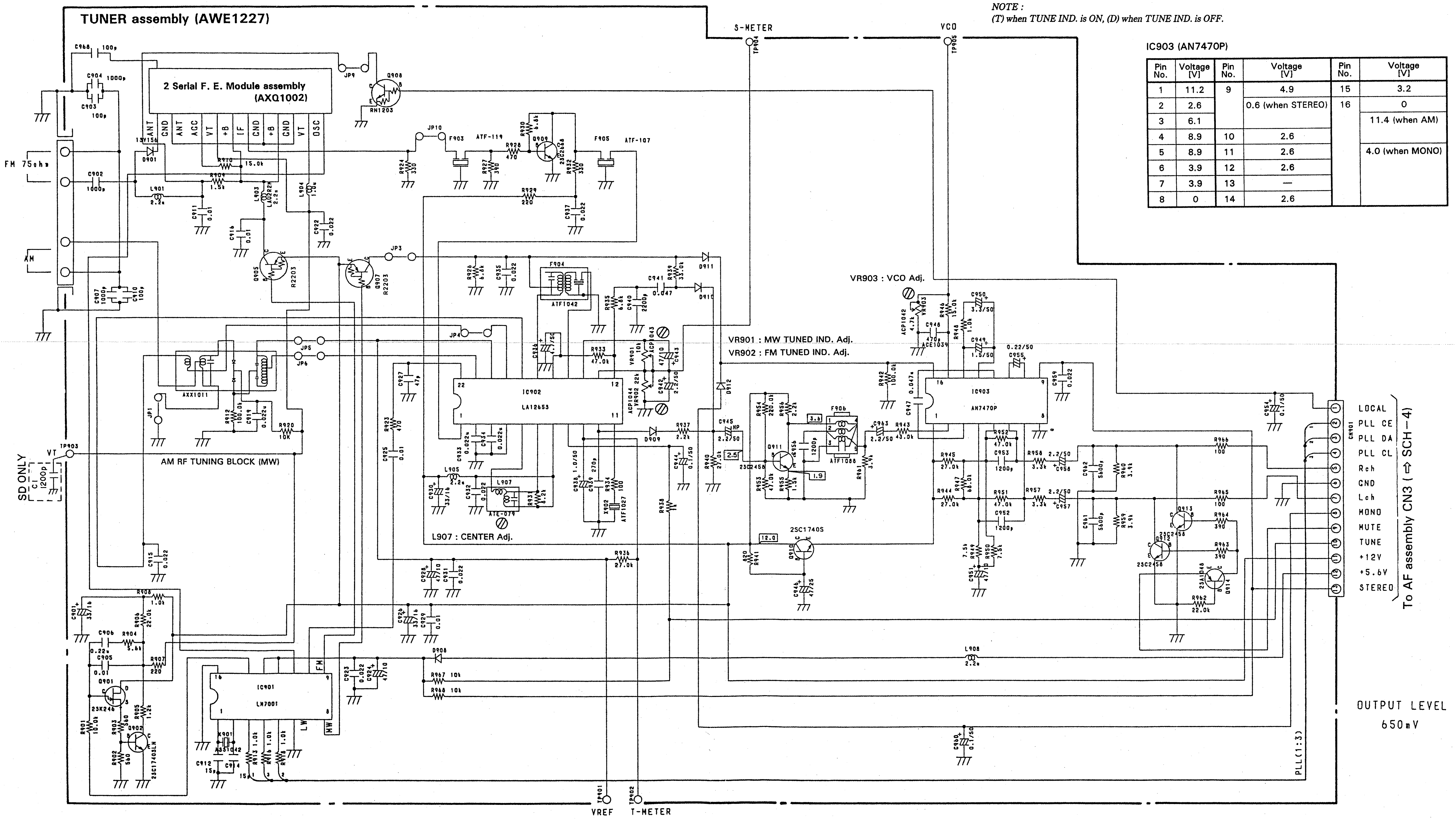
IC902 (LA1265S)

Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	2.3	7	12.0	12	1.5	16	1.4	19	0
2	2.3	8	0 (T)	13	1.4 (when MAX)				2.0 (when AM)
3	2.3		5.1 (D)	14	1.4 (when MAX)	17	0	20	3.8
4	0	9	3.8		0 (when AM)		12.0 (when AM)	21	3.8
5	12.0	10	2.8	15	2.3	18	0	22	2.8
6	12.0	11	1.5		1.1 (when AM)		2.0 (when AM)		1.5 (when AM)

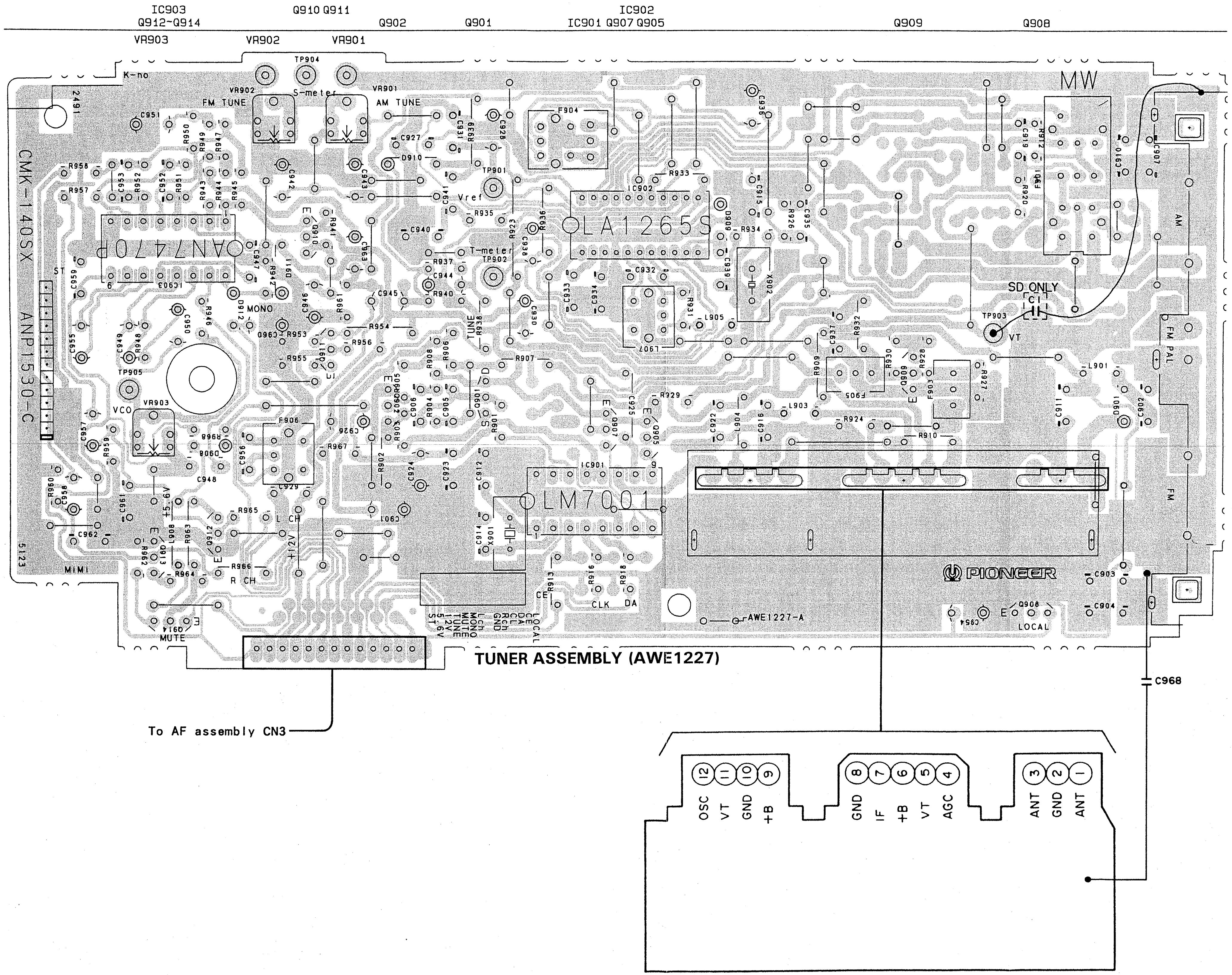
NOTE :
(T) when TUNE IND. is ON, (D) when TUNE IND. is OFF.

IC903 (AN7470P)

Pin No.	Voltage [V]	Pin No.	Voltage [V]	Pin No.	Voltage [V]
1	11.2	9	4.9	15	3.2
2	2.6		0.6 (when STEREO)	16	0
3	6.1				11.4 (when AM)
4	8.9	10	2.6		
5	8.9	11	2.6		4.0 (when MONO)
6	3.9	12	2.6		
7	3.9	13	—		
8	0	14	2.6		

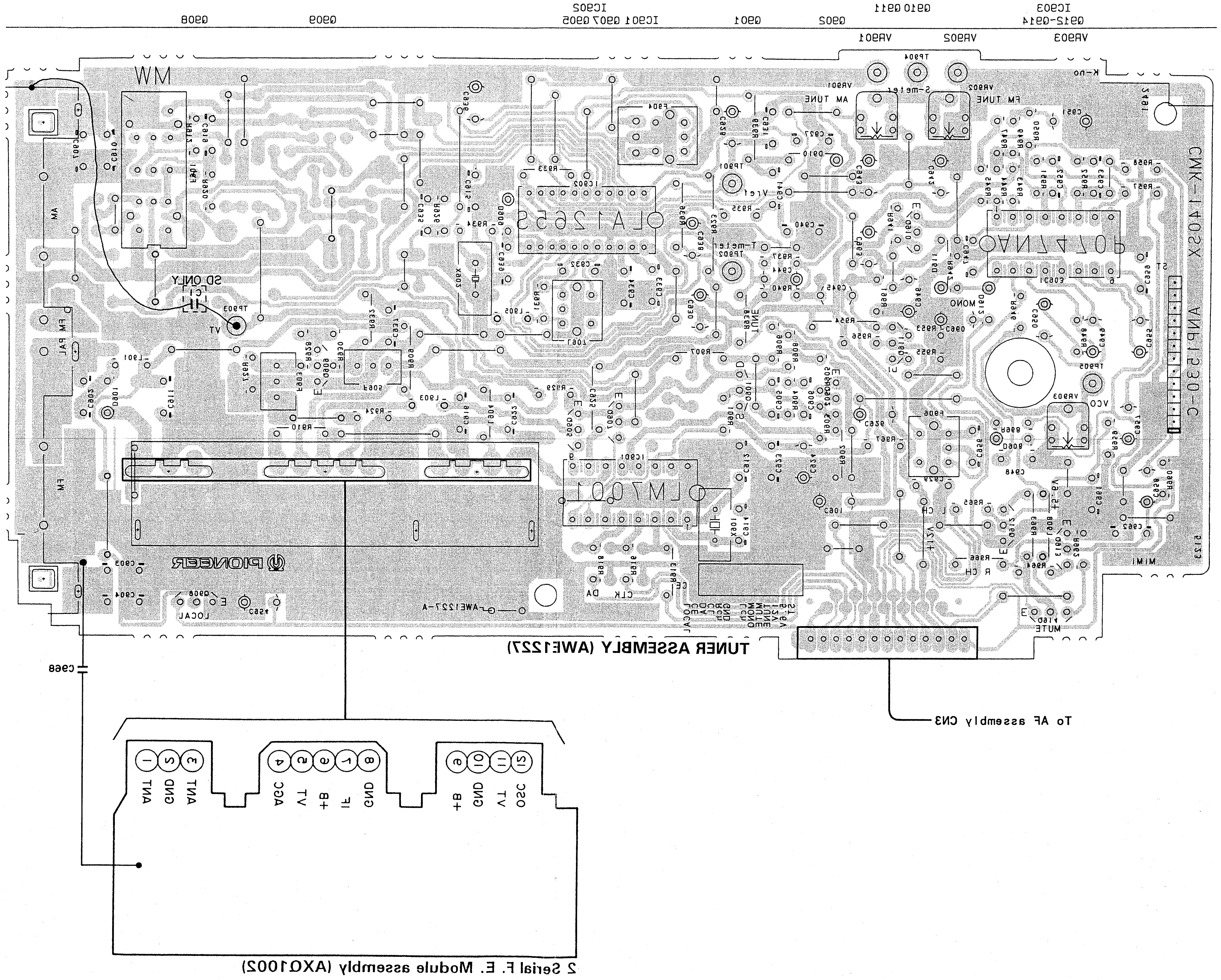

TUNER assembly (AWE1227)
2 Serial F. E. Module assembly (AXQ1002)
ANT GND ANT AGC VT +B IF GND +B GND VT OSC
FM 75ohm
AM
S-METER
VCO
TP904
TP905
JP9
Q908
RN1203
JP10
F903 ATF-119
Q909 2SC2668
F905 ATF-107
D901 1SV156
L901
L903
L904
Q905
R2203
Q907
JP3
F904
ATF1042
D911
D910
VR903 : VCO Adj.
VR901 : MW TUNED IND. Adj.
VR902 : FM TUNED IND. Adj.
JP4
JP5
JP6
AXX1011
JP1
AM RF TUNING BLOCK (MW)
VT
TP903
SD ONLY
C1 1200p
IC902
LA1265S
L905
L907
ATE-079
L907 : CENTER Adj.
X902
ATF1027
D909
D912
Q911 2SC2458
F906 ATF1088
IC903
AN7470P
2SC1740S
Q910
Q913 2SC2458
Q912 2SC2458
Q914 2SA1048
CN901
LOCAL
PLL CE
PLL DA
PLL CL
Rch
GND
Lch
MONO
MUTE
TUNE
+12V
+5.6V
STEREO
To AF assembly CN3 (⇨ SCH-4)
OUTPUT LEVEL
650mV
PLL(1:3)
IC901
LM7001
Q901 2SK246
Q902 2SC1740SLN
X901
FM
MW
LW
D908
L908
TP901
VREF
TP902
T-METER

This P. C. B connection diagram is viewed from the parts mounted side.


IC903
Q912-Q914
VR903
Q910 Q911
VR902
VR901
Q902
Q901
IC902
IC901 Q907 Q905
Q909
Q908
TP904
K-no
FM TUNE
S-meter
AM TUNE
MW
F904
TP901
Vref
LA1265S
AN7470P
IC903
T-meter
TP902
X902
SD ONLY
TP903
VT
L901
AM
FM PAL
FM
MONO
TP905
VCO
F906
F905
F903
L CH
R CH
+5.6V
+12V
IC901
LM7001
X901
CE
CLK
DA
MUTE
MIMI
CMK-140SX
ANP1530-C
5123
LOCAL
AWE1227-A
PIONEER
ST
5.6V
12V
TUNE
MUTE
MONO
Lch
Rch
GND
DA
CL
CE
LOCAL
TUNER ASSEMBLY (AWE1227)
To AF assembly CN3
C968
12
11
10
9
8
7
6
5
4
3
2
1
OSC
VT
GND
+B
GND
IF
+B
VT
AGC
ANT
GND
ANT

2 Serial F. E. Module assembly (AXQ1002)

This PCB connection diagram is viwed from the foil side.


IC902
IC901 Q907 Q905
Q901
Q902
Q910 Q911
IC903
Q912-Q914
Q908
Q909
VR901
VR902
VR903
MW
MA
FM PAL
FM
SD ONLY
TP903
AM TUNE
FM TUNE
S-meter
T-meter
Vref
LA1265S
LA1265S
LM7001
MONO
LINE
VCO
L CH
R CH
MUTE
LOCAL
PIONEER
AWE1227-A
CMX-1405A ANP1530-C
C968
ANT
GND
ANT
AGC
TV
B+
IF
GND
B+
GND
TV
OSC
1
2
3
4
5
6
7
8
9
10
11
12

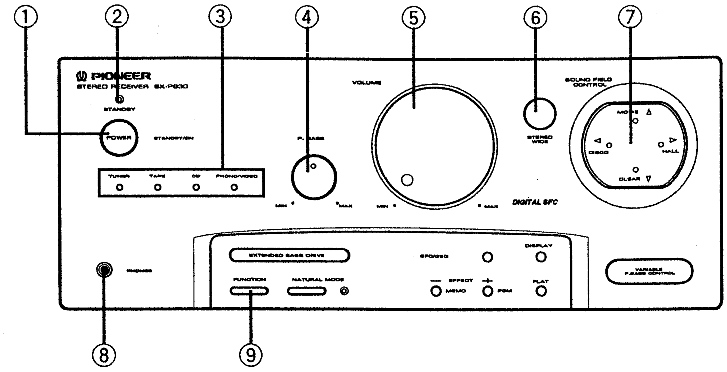
TUNER ASSEMBLY (AWE1227)

To AF assembly CN3

2 Serial F. E. Module assembly (AXQ1002)

9. PANEL FACILITIES

AMPLIFIER


①
②
③
④
⑤
⑥
⑦
PIONEER
STEREO RECEIVER SX-P530
STANDBY
POWER
STANDBY/ON
TUNER
TAPE
CD
PHONO/VIDEO
P. BASS
MIN
MAX
VOLUME
STEREO WIDE
SOUND FIELD CONTROL
MOVIE
DISCO
HALL
CLEAR
DIGITAL SFC
EXTENDED BASS DRIVE
FUNCTION
NATURAL MODE
SFC/GEQ
DISPLAY
EFFECT
MEMO
PGM
PLAY
VARIABLE P.BASS CONTROL
PHONES
⑧
⑨

AMPLIFIER

① POWER STANDBY/ON switch

This is the switch for electric power.

ON:	When set to the ON position, power is supplied and the unit becomes operational.
STANDBY:	When set to the STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute flow of power feeds the unit to maintain operation readiness. (The STANDBY indicator lights.)

② STANDBY indicator

When the unit is in the STANDBY mode, this indicator lights.

③ Function indicators (TUNER, TAPE, CD, PHONO/VIDEO)

Show the selected function.

④ P.BASS control

⑤ VOLUME control

⑥ STEREO WIDE button

⑦ SOUND FIELD CONTROL button (DISCO/◁, HALL/▷, MOVIE/△, CLEAR/▽)

⑧ Headphones jack (PHONES)

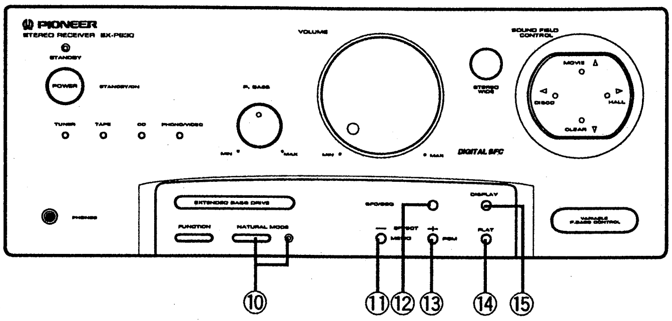
⑨ FUNCTION button

Each time this button is pressed, the function changes in the following sequence:

→TUNER → TAPE → CD ┐
└ PHONO/VIDEO ←┘

- The function switches according to the setting of the PHONO/VIDEO switch on the rear panel.

AMPLIFIER


PIONEER
STEREO RECEIVER SX-P530
STANDBY
POWER
STANDBY/ON
TUNER
TAPE
CD
PHONO/VIDEO
P. BASS
VOLUME
STEREO WIDE
SOUND FIELD CONTROL
MOVIE
DISCO
HALL
CLEAR
DIGITAL SFC
EXTENDED BASS DRIVE
FUNCTION
NATURAL MODE
SFC/GEQ
DISPLAY
EFFECT
MEMO
PGM
PLAY
VARIABLE P.BASS CONTROL
PHONES
⑩
⑪⑫⑬
⑭
⑮

⑩ NATURAL MODE button and indicator

⑪ MEMORY button

⑫ SFC/GEQ button

⑬ PROGRAM button

⑭ FLAT button

⑮ DISPLAY button

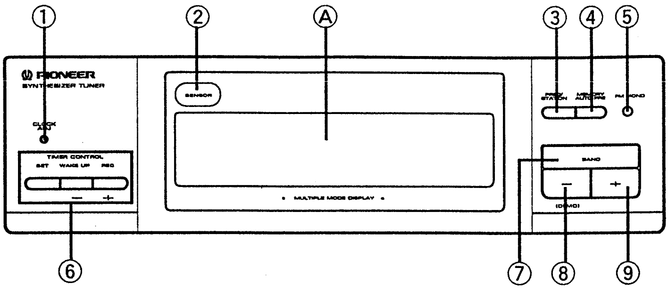
Auto Function

This model is equipped with "Auto Function" operation, so when the switch for CD PLAY, RANDOM, PLAY (tape), +/– (tuner up/down) or BAND is pressed, the function switches automatically. Use the FUNCTION button to select the component connected to the PHONO/VIDEO jacks, since Auto Function is not effective for this.

NOTE:

The function cannot be switched during recording except for tape copying. (Auto Function does not operate either.)

TUNER


①
②
Ⓐ
③
④
⑤
PIONEER
SYNTHESIZER TUNER
CLOCK ADJ
TIMER CONTROL
SET WAKE UP REC
− +
SENSOR
MULTIPLE MODE DISPLAY
FREQ STATION
MEMORY AUTO PRE
FM MONO
BAND
(DEMO)
− +
⑥
⑦
⑧
⑨

TUNER

① **CLOCK ADJ button**

② **Remote sensor window (SENSOR)**

Ⓐ **Display**

③ **FREQ/STATION button**

④ **MEMORY/AUTO PRE button**

⑤ **FM MONO button**

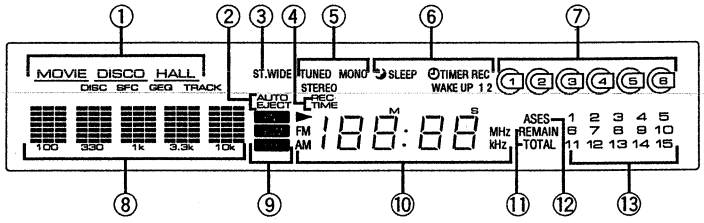
⑥ **TIMER CONTROL buttons (SET, WAKE UP/−, REC/+)**

⑦ **BAND button**

⑧ **− (tuner down) button**

⑨ **+ (tuner up) button**

Ⓐ DISPLAY


①
②
③
④
⑤
⑥
⑦
MOVIE DISCO HALL
DISC SFC GEQ TRACK
ST.WIDE
AUTO EJECT
TUNED MONO
STEREO
REC TIME
SLEEP
TIMER REC
WAKE UP 1 2
1 2 3 4 5 6
M S
FM
AM
MHz
kHz
ASES
REMAIN
TOTAL
1 2 3 4 5
6 7 8 9 10
11 12 13 14 15
100 330 1k 3.3k 10k
⑧
⑨
⑩
⑪
⑫
⑬

Ⓐ DISPLAY

① **Sound field control indicators**
Display the SOUND FIELD CONTROL settings.

② **AUTO EJECT indicator (For PDC-P630T)**
Lights when AUTO EJECT function is ON.

③ **ST. (stereo) WIDE indicator**
Lights when STEREO WIDE is turned on.

④ **REC TIME indicator**
Lights when the elapsed recording time display is selected by pressing DISPLAY.

⑤ **Tuner indicators**
Indicate the tuning mode.

⑥ **Timer indicators**
Display timer settings.

⑦ **Disc number indicators (For PDC-P530M, No.1 ~ No. 6)**

⑧ **Function display**
Normally functions as a spectrum analyzer.
Also, this displays the selected function. In the TUNER mode, this displays the station No., and when playing a CD it displays the track No.

⑨ **RND:** Lights during random play for CD player.

PGM: Lights during program input and program play for CD player.

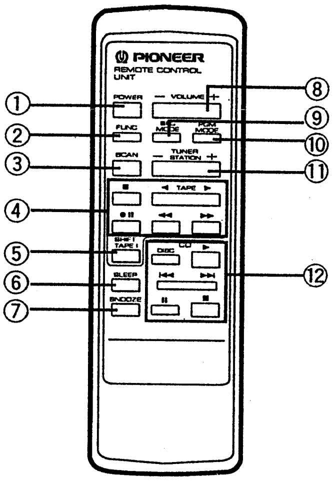
REP: Lights during repeat play for CD player.

⑩ **Frequency/Time display**
In TUNER mode, frequency is displayed. In any other mode it displays the time.

⑪ **REMAIN/TOTAL indicator (For CD player)**
"REMAIN" lights when the remaining play time display is selected by pressing DISPLAY. "TOTAL" lights when the total play time display is selected.

⑫ **ASES (Auto Synchro Editing System) indicator**
Lights when A.S.E.S. is performed.

⑬ **Music calendar (For CD player)**



REMOTE CONTROL UNIT

① POWER button

② FUNC (Function) button

Each time this button is pressed, the function changes in the following sequence: TUNER → TAPE → CD → PHONO/VIDEO → TUNER.

③ SCAN button

When the function is set to TUNER: This button is used for scanning preset stations.
When the function is set to CD: This button is used for Hi-Lite Scan.

④ TAPE I/II operation buttons
(◄ ► Play, ■ Stop, ◄◄ ►► Fast,
● II Rec pause)

⑤ SHIFT TAPE I button

To operate TAPE I, press the desired deck operation button while pressing this button.

⑥ SLEEP button

⑦ SNOOZE button

⑧ VOLUME –/+ button

⑨ SFC MODE button

Each time this button is pressed, the SOUND FIELD CONTROL setting changes in the following sequence: DISCO → HALL → MOVIE → SFC clear.

⑩ PGM MODE button

This button is used for calling up the memorized sound field setting.

⑪ TUNER STATION –/+ button

⑫ CD operation buttons
(► Play, ■ Stop, II Pause, I◄◄ ►►I Track search, DISC (For PDC-P630T and PDC-P530M)**)**

10. SPECIFICATIONS

STEREO RECEIVER: SX-P530

Amplifier Section

Continuous Power Output (DIN)	24 W + 24 W (1 kHz, T.H.D. 1%, 8 ohms)
Continuous Power Output (RMS)	30 W + 30 W (1 kHz, T.H.D. 5%, 8 ohms)
Music Power (DIN)	40 W + 40 W (1 kHz, T.H.D. 10%, 8 ohms)
Total Harmonic Distortion (1 kHz, 17.5 W, 8 ohms)	0.2%*

Miscellaneous

Power Requirements	220 - 230 V AC, 50/60 Hz
Power Consumption	180 W
Dimensions	260 (W) x 180 (H) x 295 (D) mm
Weight (without package)	4.8 kg

FM/AM Tuner Section

FM Tuner Section

Frequency Range	87.5 MHz to 108.0 MHz
Usable Sensitivity	Mono: 12.8 dBf, IHF (1.2 µV/75 ohms)
Sensitivity (DIN)	Mono S/N 26 dB: 1 µV/75 ohms Stereo S/N 46 dB: 50 µV/75 ohms
Signal-to-Noise Ratio (IHF, 85 dBf Input)	Mono: 77 dB Stereo: 73 dB
Signal-to-Noise Ratio (DIN)	Mono: 66 dB Stereo: 60 dB
Distortion	Stereo: 0.5 % (1kHz)
Antenna Input	75 ohms unbalanced

AM (MW) Tuner Section

Frequency Range	531 kHz to 1,602 kHz
Sensitivity (IHF, Loop antenna)	350 µV/m
Antenna	Loop Antenna

LW Tuner Section (For LW equipped models only)

Frequency Range	153 kHz to 281 kHz
Sensitivity (IHF, Loop antenna)	1500 µV/m
Antenna	Loop Antenna

Accessories

Remote Control Unit	1
Dry Cell Batteries (AAA/R03)	2
FM T-type Antenna	1
AM Loop Antenna	1
Power Cord	1
Operating Instructions	1

* Measured by audio spectrum analyzer.

NOTE:
Specifications and design subject to possible modification without notice due to improvements.